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278	HWEAC64	784039	288	129 - 551	1693	<p>Gly-351 to Gly-358, Lys-364 to Asn-371, Ser-374 to Gln-385, Glu-407 to Glu-413, Tyr-419 to Ser-424, Arg-435 to Gln-444.</p>	<p>2, L0471: 2, H0373: 2, H0068: 2, H0509: 2, H0519: 2, H0435: 2, S0152: 2, L0754: 2, L0603: 2, S0192: 2, H0170: 1, H0657: 1, S0212: 1, H0638: 1, S0354: 1, H0580: 1, S0045: 1, H0431: 1, H0333: 1, T0039: 1, H0013: 1, H0575: 1, S0049: 1, H0687: 1, S0003: 1, H0032: 1, S0364: 1, H0040: 1, H0551: 1, T0067: 1, H0268: 1, H0413: 1, T0069: 1, T0042: 1, S0150: 1, H0652: 1, H0529: 1, L0649: 1, L0803: 1, S0374: 1, H0691: 1, H0660: 1, H0672: 1, S0350: 1, H0478: 1, S0027: 1, S0028: 1, L0439: 1, L0740: 1, L0750: 1, L0755: 1, L0757: 1, L0759: 1, S0031: 1, L0591: 1, L0593: 1, S0026: 1, S0194: 1, S0196: 1 and S0424: 1.</p>	<p>AR104: 1, AR033: 1, AR089: 1, AR053: 0, AR096: 0, AR061: 0, AR039: 0, AR052: 0, AR060: 0, AR055: 0</p>	32-57	
						<p>Met-1 to Thr-7, Glu-13 to Val-18, Val-25 to Asn-34, Gly-56 to Val-63, Gln-80 to Glu-89,</p>				

279	HSDFAQ3	784159	289	14 - 433	1694	Met-1 to Arg-15.	Lys-102 to Leu-111, Gln-114 to Gln-119.	H0694: 29, H0703: 13, H0683: 10, H0717: 7, H0713: 6, H0542: 6, H0687: 4, H0656: 3, H0685: 2, H0716: 2, H0688: 2, H0695: 2, S0428: 2, H0689: 2, H0684: 2, H0521: 2, H0580: 1, H0601: 1, H0592: 1, H0708: 1, S0150: 1, H0699: 1, H0519: 1, H0709: 1, H0522: 1, H0555: 1, S0028: 1, H0707: 1 and H0543: 1.					79-99, 118-134
								AR104: 33, AR033: 30, AR060: 17, AR039: 15, AR096: 14, AR089: 14, AR053: 12, AR052: 10, AR055: 9, AR061: 5 S0422: 20, S0408: 10, L0776: 8, S0444: 7, H0038: 7, S0358: 6, L0740: 6, L0754: 6, L0758: 6, S0440: 5, L0771: 5, S0374: 5, L0756: 5, L0757: 5, L0774: 4, L0519: 4, H0547: 4, H0660: 4, L0748: 4, L0750: 4, L0752: 4, S0436: 4, S6024: 3, S0212: 3, S0442: 3, S0354: 3, S0360: 3, H0733: 3, T0115: 3, H0327: 3, S0003: 3, T0042: 3,					

H0494: 3, L0770: 3, L0775: 3, L0663: 3, H0144: 3, L0438: 3, S0406: 3, L0744: 3, L0439: 3, L0731: 3, H0661: 2, S0356: 2, H0728: 2, S0476: 2, H0619: 2, H0393: 2, S0222: 2, H0431: 2, H0587: 2, H0156: 2, H0098: 2, H0318: 2, S0474: 2, L0471: 2, H0014: 2, H0373: 2, S0022: 2, H0622: 2, H0313: 2, H0090: 2, H0551: 2, L0564: 2, S0438: 2, L0761: 2, L0662: 2, L0766: 2, L0659: 2, H0539: 2, H0521: 2, L0747: 2, S0031: 2, S0434: 2, L0592: 2, L0485: 2, L0581: 2, L0604: 2, S0026: 2, H0136: 2, H0542: 2, H0423: 2, H0624: 1, H0686: 1, H0713: 1, S0114: 1, H0662: 1, H0638: 1, S0420: 1, S0376: 1, H0729: 1, H0730: 1, H0722: 1, S0007: 1, S0046: 1, H0411: 1, S0278: 1, H0441: 1, H0461: 1, H0333: 1, H0574: 1, H0632: 1, L0622: 1, T0040: 1, T0060: 1, L0021: 1, H0147: 1.
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H0036:	1, S0010:	1, S0346:
1, T0048:	1, H0421:	1,
S0049:	1, T0110:	1, H0050:
1, S0050:	1, H0015:	1,
H0051:	1, H0375:	1, S6028:
1, S0214:	1, H0328:	1,
H0428:	1, H0039:	1, H0119:
1, H0031:	1, H0553:	1,
H0032:	1, H0383:	1, H0316:
1, H0040:	1, T0067:	1,
H0264:	1, H0413:	1, H0056:
1, H0560:	1, H0359:	1,
S0144:	1, S0210:	1, L0520:
1, L0769:	1, L0638:	1,
L0764:	1, L0773:	1, L0768:
1, L0387:	1, L0649:	1,
L0389:	1, L0803:	1, L0805:
1, L0653:	1, L0655:	1,
L0636:	1, L0517:	1, L0518:
1, L0809:	1, L0664:	1,
L0665:	1, H0724:	1, H0520:
1, H0593:	1, S0126:	1,
H0689:	1, H0711:	1, H0683:
1, S0330:	1, H0518:	1,
S0152:	1, H0696:	1, S0044:
1, H0478:	1, H0626:	1,
H0627:	1, S0390:	1, S0037:
1, L0786:	1, S0260:	1,
H0445:	1, H0343:	1, H0595:
1, L0590:	1, H0667:	1,

280	HMHBN86	784650	290	45 - 464	1695	Ser-16 to Asp-23.	<p>H0216: 1, H0422: 1, S0424: 1 and H0506: 1.</p> <p>AR053: 38, AR096: 29, AR052: 27, AR039: 25, AR089: 12, AR055: 11, AR060: 10, AR104: 9, AR033: 8, AR061: 5, L0662: 2, L0751: 2, L0591: 2, H0265: 1, S0358: 1, H0331: 1, H0486: 1, H0286: 1, H0644: 1, H0090: 1, H0100: 1, S0142: 1, L0638: 1, L0648: 1, L0666: 1, L0748: 1 and S0398: 1.</p>			83-104, 106-122, 31-52, 58-74
281	HLTAZ78	784764	291	123 - 1055	1696	<p>Asp-25 to Glu-47, Thr-88 to Gln-99, Tyr-129 to Ser-135, Glu-143 to Ile-150, Pro-216 to Asp-221, Lys-287 to Ser-293.</p>	<p>AR104: 52, AR061: 49, AR060: 41, AR055: 34, AR033: 30, AR089: 29, AR052: 21, AR039: 20, AR053: 19, AR096: 15, L0731: 9, L0794: 8, L0749: 6, L0439: 5, L0662: 4, L0770: 3, L0803: 3, L0596: 3, L0717: 2, H0591: 2, L0761: 2, L0766: 2, L0659: 2, L0809: 2, L0663: 2, H0436: 2, L0748: 2, L0747: 2, L0779: 2, L0755: 2, L0758: 2, L0759: 2, L0591: 2, L0581: 2, H0423: 2.</p>			185-204, 101-117

282	HLDBM50	784930	292	1326 - 655	1697				2, H0170: 1, S0282: 1, H0661: 1, H0662: 1, H0638: 1, S0418: 1, S0356: 1, S0360: 1, S0046: 1, H0393: 1, H0486: 1, H0147: 1, H0318: 1, L0041: 1, H0562: 1, H0049: 1, H0266: 1, H0124: 1, H0598: 1, H0090: 1, L0475: 1, H0561: 1, S0382: 1, S0440: 1, H0509: 1, H0641: 1, S0002: 1, S0426: 1, L0769: 1, L0764: 1, L0804: 1, L0650: 1, L0805: 1, L0776: 1, L0789: 1, L0665: 1, H0520: 1, H0519: 1, H0666: 1, S0146: 1, S3014: 1, L0754: 1, L0757: 1, L0608: 1, S0026: 1, S0192: 1 and H0542: 1, AR061: 134, AR039: 81, AR096: 49, AR053: 35, AR104: 34, AR033: 32, AR060: 31, AR089: 30, AR052: 28, AR055: 18 L0766: 5, L0637: 2, L0748: 2, L0777: 2, H0170: 1, S0346: 1, H0560: 1, H0509: 1, S0002: 1, L0764: 1, L0804: 1, L0775: 1, L0789: 1, L0666: 1, S0380:					10-37, 185-214, 39-63, 117-134
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283	HHEDH33	785013	293	104 - 415	1698	Thr-10 to Asp-20, Ser-50 to Asn-55, Ala-71 to Asp-77.	1, H0521: 1, L0779: 1 and L0755: 1. AR039: 9, AR033: 8, AR104: 8, AR053: 6, AR096: 6, AR089: 6, AR052: 5, AR055: 5, AR060: 4, AR061: 2 L0521: 26, S0422: 22, H0170: 16, H0144: 16, L0748: 12, H0083: 11, H0624: 8, L0747: 7, H0171: 6, L0750: 6, T0042: 5, L0803: 5, L0749: 5, H0543: 5, H0581: 4, L0794: 4, L0529: 4, S0134: 3, H0486: 3, L0586: 3, H0013: 3, T0041: 3, L0517: 3, H0659: 3, L0777: 3, L0755: 3, L0589: 3, L0599: 3, H0542: 3, H0329: 2, H0645: 2, H0393: 2, H0427: 2, H0052: 2, H0530: 2, S0036: 2, H0591: 2, H0063: 2, L0598: 2, L0637: 2, L0662: 2, L0804: 2, L0655: 2, H0519: 2, L0740: 2, L0752: 2, L0759: 2, H0583: 1, S0282: 1, H0306: 1, H0402: 1, H0489: 1, H0580: 1, H0151: 1, H0370: 1, H0392: 1,	Xq13.3- Xq21.2	303100, 305450, 309605, 314580	77-94
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284	HAIDL86	785497	294	139 - 462	1699	Ile-42 to Gln-52.	H0497: 1, S0280: 1, S0010: 1, S0346: 1, L0105: 1, H0421: 1, H0009: 1, H0569: 1, H0050: 1, H0620: 1, H0354: 1, H0252: 1, H0328: 1, H0428: 1, H0090: 1, H0100: 1, H0202: 1, H0494: 1, UNKWN: 1, H0529: 1, L0520: 1, L0770: 1, L0774: 1, L0555: 1, L0606: 1, L0657: 1, L0659: 1, L0809: 1, L0544: 1, H0520: 1, H0547: 1, H0436: 1, H0576: 1, L0743: 1, L0744: 1, L0754: 1, L0786: 1, L0731: 1, L0758: 1, S0031: 1, H0595: 1, S0106: 1 and S0452: 1.				1-26, 53- 75, 83-99
285	HTEPF14	785958	295	61 - 588	1700	Ser-12 to Gln-19.	AR053: 28, AR033: 20, AR052: 17, AR089: 12, AR096: 10, AR104: 10, AR060: 7, AR039: 5, AR055: 4, AR061: 4 H0171: 1, S0132: 1, H0528: 1 and L0592: 1.				142-160



								AR104: 3, AR039: 2 L0758: 2, S0134: 1, H0618: 1, H0038: 1 and H0616: 1.				
286	HOEDD04	786659	296	363 - 803	1701	Val-78 to Asp-85.		AR052: 14, AR053: 8, AR055: 8, AR089: 8, AR096: 7, AR033: 7, AR060: 7, AR039: 5, AR061: 5, AR104: 4 S0126: 2, S0474: 1 and S0003: 1.				85-104
287	HODBK89	786830	297	150 - 449	1702	Leu-28 to Arg-38.		AR033: 57, AR089: 44, AR052: 41, AR053: 38, AR096: 35, AR104: 30, AR060: 27, AR039: 16, AR055: 16, AR061: 8 S0358: 8, L0766: 7, L0777: 7, L0731: 7, L0803: 4, L0659: 4, L0748: 4, L0751: 4, S0250: 3, L0775: 3, L0783: 3, L0809: 3, L0663: 3, H0305: 2, S0418: 2, S0360: 2, S0010: 2, L0763: 2, L0789: 2, H0520: 2, S012: 2, L0750: 2, L0752: 2, L0755: 2, L0599: 2, L0362: 2, S0242: 2, H0717: 1, H0583: 1, H0656: 1, S0212: 1, S0420: 1,				47-73

288	HMUAZ89	786878	298	182 - 529	1703	Met-1 to Ile-11, Asn-16 to Gly-33.	S0376: 1, H0208: 1, S6026: 1, H0574: 1, H0632: 1, S0414: 1, H0559: 1, H0486: 1, H0013: 1, H0575: 1, S0474: 1, H0581: 1, H0370: 1, H0024: 1, H0014: 1, H0355: 1, H0328: 1, T0023: 1, H0553: 1, H0090: 1, H0591: 1, H0551: 1, H0488: 1, H0268: 1, H0623: 1, S0015: 1, H0509: 1, S0422: 1, H0529: 1, L0520: 1, L0761: 1, L0372: 1, L0626: 1, L0804: 1, L0650: 1, L0774: 1, L0653: 1, L0793: 1, L0666: 1, L0665: 1, H0547: 1, S0126: 1, H0684: 1, H0648: 1, S0152: 1, H0521: 1, S0406: 1, S0390: 1, L0745: 1, L0749: 1, L0756: 1, L0758: 1, L0588: 1, S0194: 1, H0543: 1, H0423: 1 and S0384: 1. AR089: 1, AR033: 1, AR061: 0, AR104: 0, AR096: 0, AR055: 0, AR039: 0, AR060: 0, AR052: 0 L0740: 6, S0212: 3, H0265: 2, H0656: 2, H0581:					85-101, 41-57, 66- 82
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289	HSBBB92	787263	299	221 - 1144	1704	Arg-64 to His-70.	2, H0038: 2, H0529: 2, L0649: 2, S0027: 2, L0754: 2, L0777: 2, L0731: 2, L0599: 2, S0192: 2, S0134: 1, H0341: 1, H0663: 1, S0418: 1, S0045: 1, H0619: 1, H0497: 1, H0486: 1, L0471: 1, H0615: 1, H0553: 1, H0040: 1, H0551: 1, L0662: 1, L0766: 1, L0803: 1, L0654: 1, L0658: 1, H0435: 1, H0660: 1, S0390: 1, S3014: 1, S0206: 1, L0750: 1, L0752: 1, S0194: 1 and H0506: 1.					282-308
290	HHBGJ75	787450	300	21 - 416	1705	Asp-26 to Arg-32.	AR104: 32, AR033: 24, AR096: 24, AR052: 23, AR053: 22, AR055: 20, AR039: 17, AR089: 15, AR060: 13, AR061: 9 L0758: 7, L0779: 5, H0038: 4, H0616: 2, L0151: 2, L0766: 2, H0125: 1, T0040: 1, H0050: 1, H0144: 1, H0698: 1, L0438: 1, H0521: 1, L0777: 1, L0752: 1, L0759: 1 and S0260: 1.	Xp11.23	300047, 300071,	63-89, 48- 64		

AR052: 23, AR055: 21, AR096: 20, AR104: 20, AR060: 15, AR061: 12 L0741: 7, H0545: 6, L0770: 6, L0758: 5, S0045: 3, L0769: 3, L0794: 3, L0766: 3, L0805: 3, L0809: 3, H0689: 3, L0777: 3, L0592: 3, S0360: 2, H0156: 2, S0010: 2, H0009: 2, S0022: 2, H0135: 2, H0100: 2, H0538: 2, S0126: 2, L0759: 2, L0596: 2, L0588: 2, L0589: 2, S0040: 1, S0212: 1, H0484: 1, H0483: 1, H0255: 1, H0662: 1, S0442: 1, S0046: 1, H0351: 1, H0441: 1, H0431: 1, H0486: 1, H0052: 1, H0309: 1, H0546: 1, H0566: 1, L0471: 1, H0373: 1, S0388: 1, S0051: 1, H0083: 1, H0354: 1, H0594: 1, H0266: 1, H0288: 1, H0328: 1, H0615: 1, H0428: 1, H0030: 1, H0031: 1, H0628: 1, H0124: 1, S0036: 1, H0551: 1, T0004: 1, S0210: 1, L0369: 1, L0768: 1, L0803: 1, L0650: 1, L0776: 1,	300110, 300600, 301000, 301000, 301830, 309470, 309500, 309610, 309850, 311050, 312060
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291	HDPY22	787466	301	78 - 608	1706	Lys-26 to Glu-32, Leu-36 to Thr-43, Ala-64 to Trp-70.			AR053: 1, AR055: 1, AR089: 1, AR033: 1, AR061: 0, AR096: 0, AR039: 0, AR104: 0, AR052: 0, AR060: 0 H0543: 2, H0656: 1, H0341: 1, S0045: 1, H0039: 1, S0210: 1 and H0521: 1.				91-121, 77-93
292	HBBBC20	787587	302	570 - 1073	1707				AR096: 8, AR033: 7, AR053: 6, AR060: 5, AR089: 5, AR052: 5, AR039: 3, AR055: 2, AR061: 2, AR104: 1 S0007: 2, T0040: 1, S0010: 1, H0374: 1, L0157: 1, H0488: 1, H0519: 1 and H0539: 1.				80-97, 132-148, 111-127
293	HMBELW08	788955	303	105 - 1220	1708	Tyr-21 to Lys-28, Asp-51 to Asn-61, Asp-83 to Val-98, Phe-157 to Gln-165,			AR055: 10, AR096: 6, AR060: 6, AR033: 6, AR052: 5, AR089: 5, AR061: 4, AR053: 4,				248-264, 114-130

						Asn-198 to Asn-205, Arg-241 to Gly-247, Thr-266 to Leu-272, Gln-288 to Lys-299, Pro-348 to Gly-354.	AR104: 3, AR039: 3, L0439: 4, H0553: 3, S0414: 2, H0031: 2, H0625: 2, H0529: 2, H0144: 2, S0126: 2, L0742: 2, L0744: 2, L0779: 2, H0717: 1, H0656: 1, S0222: 1, H0333: 1, H0013: 1, S0010: 1, T0110: 1, H0050: 1, T0010: 1, S6028: 1, H0266: 1, S0318: 1, S0316: 1, S0003: 1, H0428: 1, H0551: 1, H0100: 1, T0042: 1, S0344: 1, H0538: 1, L0766: 1, L0805: 1, L0665: 1, H0519: 1, H0690: 1, H0670: 1, S0380: 1, L0743: 1, L0756: 1, L0731: 1, S0026: 1, S0192: 1, S0276: 1, H0423: 1 and L0698: 1.				
294	HTPDL90	789115	304	150 - 1235	1709		AR039: 69, AR096: 52, AR089: 45, AR052: 34, AR053: 32, AR060: 21, AR055: 15, AR104: 13, AR033: 12, AR061: 8				190-207, 14-30, 288-304, 144-160
295	HTACZ08	789276	305	1095 - 82	1710	Pro-15 to Gly-23, Glu-59 to Ser-64, Leu-100 to Gln-106,	AR055: 11, AR061: 6, AR060: 6, AR033: 5, AR089: 4, AR052: 4,				161-177, 276-292

						Arg-134 to Glu-139, Met-219 to Trp-225, Ile-255 to Asp-260.	AR096: 3, AR104: 3, AR053: 3, AR039: 2 L0766: 4, L0749: 4, L0804: 3, L0751: 3, H0486: 2, H0069: 2, H0012: 2, H0620: 2, H0634: 2, H0616: 2, L0771: 2, H0521: 2, L0747: 2, H0583: 1, S0212: 1, H0255: 1, S0356: 1, S0376: 1, H0619: 1, H0609: 1, H0613: 1, H0586: 1, H0618: 1, H0373: 1, H0239: 1, H0213: 1, H0038: 1, H0040: 1, H0087: 1, S0426: 1, L0763: 1, L0769: 1, L0761: 1, L0646: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0526: 1, L0790: 1, L0666: 1, L0665: 1, S0126: 1, H0539: 1, S0406: 1, L0750: 1, L0756: 1, L0779: 1, L0757: 1, L0758: 1 and S0194: 1.					S2-72, 31- 50, 75-95, 9-28
296	HAGEC91	789377	306	48 - 377	1711		AR096: 18, AR039: 18, AR089: 16, AR060: 12, AR104: 11, AR053: 10, AR052: 10, AR033: 9, AR055: 9, AR061: 5 S0114: 2, S0360: 1, H0619: 1, S0222: 1, H0392:					

297	HTTCB23	789555	307	1698 - 10	1712	<p>Trp-105 to Thr-116, Trp-155 to Gln-162, Gln-172 to Asp-177, Gln-226 to Glu-232, Gln-254 to Glu-260, Glu-296 to Tyr-305, Thr-338 to Val-344, Leu-377 to Ile-384, Asp-413 to Lys-419, Cys-436 to Ile-443, Thr-490 to Gln-496, Glu-508 to Ser-514, Lys-525 to Glu-537.</p>	<p>1, S0010: 1, H0538: 1, L0527: 1, L0657: 1, L0659: 1, H0435: 1, H0658: 1, H0543: 1 and L0600: 1.</p> <p>AR039: 45, AR096: 22, AR104: 20, AR033: 19, AR053: 18, AR089: 16, AR055: 15, AR060: 14, AR052: 13, AR061: 8 L0666: 5, L0748: 5, L0747: 4, L0768: 3, H0521: 3, L0750: 3, L0755: 3, L0608: 3, H0486: 2, H0575: 2, H0052: 2, H0457: 2, H0024: 2, H0090: 2, L0631: 2, L0766: 2, L0665: 2, L0438: 2, H0547: 2, H0435: 2, H0658: 2, H0696: 2, H0436: 2, H0170: 1, H0650: 1, H0656: 1, H0638: 1, S0420: 1, H0607: 1, H0013: 1, H0618: 1, H0046: 1, S0250: 1, S0003: 1, H0688: 1, T0023: 1, S0364: 1, H0591: 1, H0040: 1, H0264: 1, H0268: 1, H0494: 1, H0509: 1, H0538: 1, H0529: 1, L0763: 1, L0644: 1, L0662: 1, L0775: 1, L0659: 1, L0783: 1, L0809: 1,</p>				<p>451-468, 2-18, 474- 490, 306- 322</p>
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									L0789: 1, L0664: 1, H0519: 1, H0648: 1, S0378: 1, S0380: 1, H0522: 1, L0779: 1, L0759: 1, H0543: 1 and H0423: 1.				
298	HYAAL21	789607	308	99 - 1217	1713				AR039: 33, AR089: 18, AR053: 17, AR096: 17, AR033: 14, AR052: 14, AR104: 13, AR060: 11, AR055: 7, AR061: 5, H0583: 1 and S0216: 1.				82-98
299	HTLHY91	789660	309	121 - 576	1714				AR055: 3, AR061: 3, AR033: 3, AR096: 3, AR060: 2, AR089: 2, AR052: 1, AR053: 1, AR039: 1, AR104: 0, H0618: 3, H0253: 3, L0803: 2, L0748: 2, L0779: 2, L0758: 2, H0550: 1, T0060: 1, H0544: 1, H0041: 1, S0368: 1, H0038: 1, H0509: 1, L0363: 1, L0768: 1, L0657: 1, L0809: 1, L0663: 1, H0684: 1 and S0152: 1.				116-134
300	HUTAD91	789688	310	4 - 513	1715	Gly-42 to Gly-47, Asn-64 to Asn-74, Ser-102 to Val-108, Pro-114 to Leu-121.			AR055: 20, AR052: 18, AR033: 17, AR104: 16, AR039: 15, AR053: 14, AR060: 13, AR096: 9,				84-100

301	HKGDE58	790091	311	28 - 531	1716	Pro-5 to Lys-16, Ser-21 to Leu-26, Trp-43 to Cys-53, Glu-74 to Pro-81, Met-86 to Val-91.	AR089: 8, AR061: 3 L0731: 6, L0770: 3, H0295: 2, L0375: 2, L0756: 2, H0706: 1, H0212: 1, S0440: 1, L0369: 1, L0763: 1, L0769: 1, L0639: 1, L0646: 1, L0764: 1, L0774: 1, L0805: 1, L0542: 1, L0783: 1, L0666: 1, L0664: 1, L0565: 1, H0648: 1, S0027: 1, L0740: 1, L0745: 1, L0749: 1, L0750: 1, L0752: 1, L0599: 1 and H0423: 1.				
							AR096: 3, AR089: 2, AR060: 2, AR104: 2, AR053: 2, AR055: 2, AR033: 1, AR052: 1, AR061: 1, AR039: 0 H0538: 1, L0803: 1 and L0731: 1.				114-130
302	HBIW78	790219	312	50 - 1051	1717	Asp-41 to Asn-47, Ser-57 to Lys-63, Glu-91 to Gly-98, Asp-108 to Cys-117, Lys-177 to Glu-187, Phe-204 to Asp-221.	AR033: 7, AR096: 5, AR052: 4, AR060: 4, AR061: 3, AR089: 3, AR055: 3, AR053: 2, AR104: 2, AR039: 1 H0521: 4, H0656: 3, H0542: 2, L0615: 1, S0045: 1, H0643: 1, H0013: 1,				235-252, 133-149

303	HTOIC11	790634	313	89 - 853	1718				H0575: 1, H0581: 1, H0421: 1, S0049: 1, H0052: 1, T0103: 1, H0050: 1, H0373: 1, H0051: 1, H0083: 1, H0375: 1, H0266: 1, H0039: 1, H0031: 1, H0644: 1, H0090: 1, H0591: 1, H0038: 1, H0412: 1, H0623: 1, H0494: 1, S0150: 1, S0344: 1, S0210: 1, S0422: 1, H0519: 1, H0522: 1, S3012: 1, L0588: 1 and L0591: 1.				50-73, 167-183
									AR033: 5, AR089: 4, AR061: 3, AR060: 2, AR052: 2, AR055: 2, AR053: 2, AR039: 1, AR096: 0, AR104: 0 L0794: 4, L0766: 2, L0777: 2, H0549: 1, H0093: 1, H0135: 1, H0087: 1, H0264: 1, L0769: 1, L0804: 1, L0774: 1, L0783: 1, L0809: 1, L0787: 1, L0789: 1 and L0666: 1.				
304	HNTRM40	790790	314	141 - 446	1719	Phe-6 to Leu-14, Lys-30 to Asp-37.			AR039: 4, AR096: 3, AR089: 3, AR104: 3, AR033: 2, AR060: 2, AR055: 2, AR052: 2, AR061: 2, AR053: 2	1p31	180069, 180069, 180069, 201450, 248610,	74-90, 12-28	

									L0770: 4, H0551: 2, L0805: 2, H0593: 2, H0658: 2, L0439: 2, L0747: 2, H0431: 1, H0156: 1, H0251: 1, H0135: 1, L0776: 1, L0537: 1, L0790: 1, H0144: 1, L0352: 1, H0547: 1, S0037: 1, S0206: 1, L0755: 1 and L0758: 1.		600309, 601676, 602522		
305	HSKAY30	790807	315	707 - 1645	1720	Pro-98 to Phe-110, Ser-114 to Asp-123, Lys-152 to Arg-157, Arg-235 to Gln-250.			AR055: 7, AR096: 5, AR060: 4, AR052: 4, AR089: 3, AR033: 3, AR061: 3, AR053: 2, AR104: 2, AR039: 1 L0527: 2, H0208: 1, H0635: 1, S0250: 1, H0622: 1, H0644: 1, H0551: 1, L0766: 1, H0519: 1, H0521: 1, S0027: 1 and H0136: 1.			160-188, 20-47, 200-223, 57-84, 132-150, 2-18	
306	HSSJN12	791489	316	149 - 505	1721	Gly-33 to Arg-38.			AR055: 14, AR033: 11, AR053: 11, AR089: 10, AR052: 9, AR096: 8, AR039: 8, AR060: 8, AR061: 7, AR104: 7 H0620: 7, L0731: 6, L0751: 4, H0599: 3, L0157: 3, H0135: 3, L0747: 3, L0779: 3, S0222: 2, H0333: 2, H0012: 2, H0188: 2,			95-113, 38-54	

307	HTFBG93	791501	317	136 - 483	1722	Ser-16 to Gly-22.	AR033: 19, AR089: 15, AR053: 9, AR039: 9, AR055: 9, AR096: 8, AR060: 8, AR052: 7, AR061: 7, AR104: 6	H0213: 2, H0553: 2, L0142: 2, L0519: 2, L0791: 2, H0690: 2, L0743: 2, L0744: 2, L0439: 2, L0749: 2, L0752: 2, L0759: 2, L0588: 2, S6024: 1, S0116: 1, H0484: 1, S0418: 1, L0005: 1, H0645: 1, H0549: 1, H0550: 1, H0156: 1, T0082: 1, H0052: 1, H0545: 1, H0041: 1, H0050: 1, S0388: 1, S0250: 1, H0048: 1, H0424: 1, H0606: 1, S0366: 1, H0059: 1, S0038: 1, H0100: 1, S0112: 1, H0494: 1, H0646: 1, L0769: 1, L0651: 1, L0783: 1, L0809: 1, L0664: 1, L0665: 1, S0328: 1, H0521: 1, S0027: 1, L0750: 1, L0755: 1, L0757: 1 and H0445: 1.				53-69
308	HCHOO84	791776	318	196 - 921	1723	Arg-56 to Lys-73, Arg-86 to Asp-92.	AR033: 3, AR096: 3, AR053: 3, AR052: 3,				157-173	

Glu-103 to Arg-109, Ser-146 to His-154, Pro-190 to Ile-195, Val-212 to Cys-218.	AR055: 2, AR104: 2, AR060: 2, AR089: 1, AR039: 1, AR061: 1 L0438: 6, L0439: 6, L0755: 4, L0776: 3, L0754: 3, H0542: 3, H0556: 2, L0157: 2, H0553: 2, L0770: 2, L0769: 2, L0805: 2, L0748: 2, L0747: 2, L0749: 2, L0750: 2, L0779: 2, L0731: 2, S0242: 2, H0265: 1, L0426: 1, H0341: 1, H0484: 1, S0418: 1, S0046: 1, H0393: 1, S0278: 1, S0222: 1, H0013: 1, H0635: 1, H0427: 1, H0156: 1, H0575: 1, L2250: 1, H0046: 1, H0009: 1, H0050: 1, L0471: 1, H0266: 1, H0328: 1, H0428: 1, H0644: 1, H0212: 1, H0591: 1, H0616: 1, H0412: 1, T0041: 1, S0438: 1, H0647: 1, S0426: 1, L0771: 1, L0636: 1, L0789: 1, L4501: 1, L0666: 1, L0665: 1, H0520: 1, H0519: 1, H0593: 1, H0435: 1, H0658: 1, S0152: 1, H0214: 1, H0478: 1, S0027: 1, S0028: 1, L0756: 1,
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309	HE8OX93	791839	319	171 - 677	1724	Pro-9 to Pro-24, Arg-55 to Gln-71, Tyr-90 to Val-95, Pro-97 to Arg-102, Val-105 to Asn-118.	L0752: 1, H0343: 1 and S0436: 1. AR055: 14, AR061: 10, AR060: 10, AR039: 9, AR052: 7, AR096: 7, AR089: 6, AR033: 6, AR104: 5, AR053: 5 H0624: 1, H0171: 1 and H0013: 1.				137-154
310	HOFMV90	792393	320	24 - 1412	1725	Asp-3 to Ile-14, Asp-30 to Tyr-38, Lys-43 to Thr-52, Pro-54 to Glu-61, Arg-116 to Gly-121, Asn-146 to Arg-157, Pro-259 to Phe-264, Asp-271 to Glu-276, Ser-285 to Asn-293, Ala-358 to Ala-366, Leu-370 to Gln-375, Glu-407 to Thr-412, Ile-421 to Leu-429.	AR096: 3, AR052: 3, AR053: 3, AR033: 3, AR039: 2, AR089: 2, AR104: 2, AR060: 1, AR061: 1, AR055: 1 L0439: 11, L0666: 5, L0740: 5, H0580: 4, H0591: 4, H0519: 4, S0476: 3, L0471: 3, H0553: 3, L0770: 3, L0803: 3, L0752: 3, L0592: 3, S0418: 2, H0013: 2, H0046: 2, H0373: 2, S0003: 2, H0090: 2, H0551: 2, H0412: 2, S0386: 2, L0775: 2, L0655: 2, L0663: 2, L0665: 2, H0547: 2, H0660: 2, H0521: 2, L0748: 2, L0751: 2, L0754: 2, L0747: 2, L0731: 2, L0757: 2, L0759: 2, L0608: 2,				308-325, 64-80, 211-227, 158-174

	H0543: 2, H0422: 2, H0171: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0713: 1, H0717: 1, H0657: 1, S0212: 1, H0125: 1, S0356: 1, S0358: 1, S0046: 1, H0619: 1, H0411: 1, S0222: 1, H0415: 1, H0497: 1, H0486: 1, T0040: 1, L0586: 1, H0575: 1, S0474: 1, H0581: 1, H0052: 1, T0103: 1, H0597: 1, H0545: 1, L0041: 1, L0157: 1, H0571: 1, H0057: 1, H0083: 1, H0266: 1, S0214: 1, H0252: 1, H0040: 1, H0379: 1, H0623: 1, T0042: 1, H0560: 1, H0625: 1, S0440: 1, H0641: 1, S0422: 1, S0426: 1, L0763: 1, L0800: 1, L0766: 1, L5564: 1, L0804: 1, L0606: 1, L0657: 1, L0659: 1, L0809: 1, L0792: 1, L0532: 1, L0664: 1, H0693: 1, L0352: 1, H0435: 1, H0658: 1, H0672: 1, S0330: 1, S0380: 1, S0152: 1, S0027: 1, S0028: 1, L0777: 1, L0755: 1, L0758: 1, S0434: 1, S0436: 1,	
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311	HTEFV95	792575	321	61 - 573	1726	Glu-94 to Pro-99.	L0601: 1, L0366: 1, H0542: 1, H0423: 1 and H0293: 1. AR055: 13, AR052: 9, AR089: 9, AR053: 8, AR033: 8, AR060: 7, AR096: 7, AR061: 6, AR104: 3, AR039: 2, H0038: 2, S0010: 1, H0252: 1, T0023: 1 and H0616: 1.			107-123
312	HETJA44	792627	322	813 - 148	1727	Glu-16 to Thr-24, Ser-32 to Val-42.	AR055: 8, AR052: 6, AR060: 5, AR096: 5, AR053: 4, AR033: 4, AR089: 4, AR061: 4, AR039: 3, AR104: 2, H0046: 7, S0314: 2, L0751: 2, L0754: 2, H0171: 1, S0222: 1, H0574: 1, H0318: 1, H0194: 1, H0477: 1, S0422: 1, L0373: 1, L0768: 1, L0776: 1, L0655: 1, L0666: 1, L0747: 1, L0780: 1, L0752: 1, S0026: 1 and S0424: 1.			182-198
313	HE2DR93	792628	323	72 - 374	1728	Val-13 to Asn-21, His-24 to Leu-29, Pro-32 to Pro-37, Arg-43 to Leu-48, Cys-83 to Met-94.	AR055: 6, AR053: 3, AR060: 3, AR096: 3, AR052: 3, AR061: 3, AR089: 3, AR033: 2, AR104: 2, AR039: 1			56-82

314	HABJT15	792938	324	41 - 610	1729	Glu-7 to Arg-22.	H0170: 1, H0620: 1, L0774: 1, L0744: 1 and L0748: 1. AR053: 11, AR039: 10, AR052: 10, AR055: 10, AR033: 10, AR089: 9, AR096: 7, AR060: 5, AR104: 5, AR061: 4 H0052: 4, S0049: 3, H0135: 3, L0803: 3, L0804: 3, L0758: 3, H0171: 2, L0764: 2, L0771: 2, L0775: 2, L0439: 2, L0750: 2, L0779: 2, L0731: 2, L0759: 2, L0603: 2, H0624: 1, H0656: 1, S0442: 1, H0619: 1, H0550: 1, H0370: 1, H0592: 1, H0333: 1, L0623: 1, H0013: 1, H0156: 1, H0590: 1, H0318: 1, S0474: 1, H0546: 1, L0163: 1, H0267: 1, H0179: 1, L0456: 1, H0090: 1, H0077: 1, H0264: 1, S0038: 1, H0494: 1, H0560: 1, H0561: 1, L0763: 1, L0770: 1, L0769: 1, L0772: 1, L0800: 1, L0645: 1, L0662: 1, L0768: 1, L0766: 1, L0774: 1, L0375: 1, L0809: 1, L0789:			126-143
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									1, L0666: 1, L0663: 1, H0144: 1, L0438: 1, H0547: 1, H0593: 1, S0126: 1, H0670: 1, S0328: 1, S0330: 1, H0539: 1, H0521: 1, H0696: 1, H0627: 1, L0748: 1, L0749: 1, L0756: 1, L0786: 1, L0780: 1, L0752: 1, H0445: 1, L0605: 1 and L0592: 1.				
315	HDBAD63	793148	325	109 - 606	1730	Met-1 to Arg-15, Asp-58 to Ala-63, Pro-67 to Arg-73.		AR096: 21, AR061: 16, AR089: 11, AR052: 7, AR039: 5, AR055: 4, AR104: 4, AR053: 4, AR060: 4, AR033: 4 H0265: 3, H0556: 3, H0657: 3, H0059: 3, H0255: 2, H0661: 2, L0750: 2, H0662: 1, H0638: 1, H0393: 1, H0101: 1, T0082: 1, T0110: 1, H0578: 1, H0083: 1, H0617: 1, H0606: 1, T0042: 1, S0142: 1, H0144: 1, H0547: 1, H0576: 1, S3014: 1, L0747: 1, L0777: 1, L0755: 1 and H0506: 1.				78-94, 124-140, 37-53, 97- 113	
316	HE8QH85	793204	326	170 - 532	1731	Glu-34 to Asp-39.		AR089: 20, AR033: 19, AR104: 15, AR060: 15, AR061: 12, AR039: 11,	Xp11.4- p11.1	300047, 300062, 300600,	98-115, 62-78, 40- 56		

AR055: 10, AR096: 8, AR053: 7, AR052: 7 H0547: 25, H0144: 14, H0619: 13, H0135: 13, H0539: 13, L0747: 13, H0013: 12, L0592: 10, H0024: 9, L0769: 8, L0754: 8, H0012: 7, H0424: 7, H0100: 7, L0731: 7, H0624: 6, H0333: 6, L0774: 6, L0665: 6, H0519: 6, S0027: 6, L0759: 6, L0599: 6, S0420: 5, L0471: 5, H0615: 5, H0124: 5, H0520: 5, L0758: 5, L0594: 5, L0595: 5, H0170: 4, H0393: 4, S0278: 4, H0052: 4, H0545: 4, H0046: 4, H0050: 4, H0620: 4, S0051: 4, H0594: 4, H0553: 4, S0036: 4, H0494: 4, L0776: 4, L0666: 4, L0664: 4, S0126: 4, L0748: 4, L0751: 4, L0750: 4, L0605: 4, L0593: 4, S0192: 4, H0543: 4, S0418: 3, S0358: 3, S0046: 3, H0586: 3, H0486: 3, H0156: 3, H0581: 3, H0251: 3, H0546: 3, H0081: 3, H0015: 3, H0083: 3, H0687: 3,	309470, 309500, 309610, 310500, 310600, 310600, 311050, 312060
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	S0022: 3, H0328: 3, H0428: 3, H0551: 3, L0772: 3, L0764: 3, L0521: 3, L0662: 3, L0768: 3, L0809: 3, S0380: 3, L0439: 3, S0212: 2, H0483: 2, S0356: 2, S0007: 2, H0351: 2, H0610: 2, H0587: 2, H0574: 2, H0318: 2, H0544: 2, H0009: 2, H0373: 2, T0010: 2, S6028: 2, H0266: 2, H0252: 2, H0032: 2, H0673: 2, H0087: 2, L0351: 2, H0641: 2, S0210: 2, L0369: 2, L0762: 2, L0803: 2, L0775: 2, L0651: 2, L0783: 2, L0519: 2, L0565: 2, H0593: 2, H0690: 2, S0152: 2, H0478: 2, S0037: 2, S3014: 2, S0028: 2, S0032: 2, L0756: 2, L0752: 2, L0587: 2, S0196: 2, H0171: 1, H0395: 1, S0040: 1, H0295: 1, H0294: 1, S0114: 1, S0430: 1, H0484: 1, H0661: 1, H0664: 1, H0662: 1, H0176: 1, S0442: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0045: 1, H0645: 1, S0300: 1, L0717: 1.	
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H0261: 1, H0549: 1, H0550: 1, S0222: 1, S0220: 1, H0441: 1, H0403: 1, H0438: 1, H0632: 1, T0039: 1, H0244: 1, H0250: 1, H0069: 1, H0427: 1, H0575: 1, H0374: 1, H0196: 1, H0194: 1, H0085: 1, H0597: 1, H0327: 1, H0150: 1, H0172: 1, H0123: 1, H0023: 1, H0200: 1, H0051: 1, H0275: 1, H0356: 1, H0354: 1, H0271: 1, H0286: 1, H0039: 1, T0006: 1, H0033: 1, H0604: 1, H0644: 1, L0142: 1, H0628: 1, H0617: 1, H0383: 1, H0674: 1, H0163: 1, H0634: 1, H0272: 1, H0268: 1, H0412: 1, H0413: 1, S0038: 1, T0041: 1, T0042: 1, H0561: 1, S0150: 1, S0144: 1, S0142: 1, L0638: 1, L0637: 1, L0374: 1, L0773: 1, L0794: 1, L0649: 1, L0650: 1, L0375: 1, L0378: 1, L0654: 1, L0661: 1, L0657: 1, L0634: 1, L0659: 1, L0636: 1, L0647: 1, L0367: 1, L0663: 1, H0701: 1, L0438: 1,
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317	HAICU52	793373	327	162 - 662	1732	Arg-14 to Ser-23, Arg-50 to Trp-60.	H0689: 1, H0683: 1, H0670: 1, H0660: 1, H0672: 1, S0328: 1, S0330: 1, H0521: 1, S0406: 1, H0555: 1, H0436: 1, L0611: 1, S0390: 1, L0779: 1, L0780: 1, L0757: 1, H0707: 1, L0589: 1, S0011: 1, H0668: 1, H0653: 1, H0667: 1, H0542: 1, L0469: 1, H0422: 1 and H0506: 1.				
							AR052: 187, AR053: 127, AR096: 125, AR055: 118, AR089: 96, AR104: 82, AR061: 73, AR060: 73, AR039: 71, AR033: 64 S0418: 2, S0007: 2, S0132: 2, H0559: 2, H0520: 2, H0547: 2, H0650: 1, H0483: 1, S0046: 1, S0476: 1, H0012: 1, H0604: 1, S0366: 1, H0551: 1, S0150: 1, S0378: 1, S0152: 1, S014: 1, L0439: 1 and S0194: 1.				132-148
318	HE6BJ49	793433	328	59 - 469	1733	Met-1 to Ala-6, Arg-16 to Thr-28, Leu-34 to Thr-49, Ile-97 to Ile-104, Glu-129 to Arg-137.	AR039: 70, AR053: 41, AR104: 39, AR052: 38, AR096: 36, AR033: 36, AR055: 34, AR060: 29, AR089: 24, AR061: 16				65-81

319	HE8TJ39	793553	329	259 - 615	1734	Arg-86 to Val-91.	L0748: 7, H0039: 5, H0619: 4, L0439: 4, S0222: 3, H0494: 3, L0438: 3, H0012: 2, H0032: 2, H0547: 2, L0740: 2, L0759: 2, H0556: 1, S0134: 1, H0580: 1, S0278: 1, H0415: 1, H0586: 1, T0109: 1, H0013: 1, H0575: 1, S0010: 1, H0581: 1, H0046: 1, L2244: 1, L0471: 1, T0010: 1, H0354: 1, H0687: 1, H0031: 1, H0553: 1, H0644: 1, H0400: 1, H0591: 1, H0038: 1, H0040: 1, H0551: 1, H0623: 1, H0100: 1, S0440: 1, S0344: 1, L0387: 1, L0766: 1, L0790: 1, H0520: 1, H0519: 1, H0660: 1, S0152: 1, S0044: 1, H0436: 1, L0751: 1, L0731: 1, S0031: 1, L0592: 1, S0242: 1 and H0423: 1. AR033: 5, AR053: 3, AR052: 3, AR096: 3, AR089: 3, AR061: 3, AR060: 2, AR104: 2, AR039: 2, AR055: 1 L0777: 3, H0013: 2 and L0749: 1.			65-85, 5- 21
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320	HFIBG92	793632	330	104 - 481	1735	Asp-29 to Thr-34, Val-55 to Gly-65, Glu-114 to Ala-119.	AR052: 3, AR053: 3, AR096: 3, AR055: 2, AR033: 1, AR060: 1, AR089: 1, AR061: 1, AR104: 1, AR039: 0 H0556: 5, H0265: 2, S0418: 2, H0575: 2, L0659: 2, S0328: 2, L0731: 2, L0759: 2, S0192: 2, H0295: 1, T0049: 1, S0046: 1, S0476: 1, S0278: 1, H0486: 1, H0250: 1, H0156: 1, H0544: 1, L0041: 1, H0081: 1, H0266: 1, H0264: 1, T0041: 1, T0042: 1, H0561: 1, L0639: 1, L0637: 1, L0662: 1, L0767: 1, L0768: 1, L0509: 1, L0382: 1, L2269: 1, L0663: 1, S0310: 1, H0672: 1, S0380: 1, H0521: 1, S0037: 1, S0027: 1, L0747: 1, L0777: 1, S0260: 1, S0434: 1, S0436: 1, L0592: 1, H0543: 1 and H0008: 1.			96-112
321	HDPBJ94	794297	331	39 - 425	1736	Gly-10 to Pro-19, Pro-25 to Arg-33, Ser-43 to Gly-52.	AR055: 3, AR052: 3, AR089: 2, AR033: 2, AR053: 2, AR060: 2, AR096: 1, AR061: 1, AR104: 1, AR039: 0			97-117

322	HPIAX11	794354	332	342 - 1259	1737			S0116: 1, L0768: 1, L0656: 1, H0521: 1, L0070: 1, L0439: 1 and L0779: 1. AR055: 11, AR061: 9, AR033: 9, AR089: 8, AR052: 8, AR104: 7, AR096: 7, AR053: 6, AR060: 5, AR039: 3 H0616: 1, S0150: 1 and L0581: 1.			254-282, 224-246, 119-140, 160-179, 200-217	
323	HBGMW9 5	795325	333	1 - 300	1738	Arg-8 to Gly-17.		AR053: 1, AR052: 1, AR055: 1, AR033: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 1, AR096: 0, AR039: 0 H0255: 1, S0045: 1, S0278: 1, H0181: 1, H0617: 1, S0428: 1, S0053: 1, S0028: 1 and L0597: 1.			40-61, 65- 81	
324	HUSIJ83	796477	334	883 - 578	1739	Phe-2 to Gln-7.		AR039: 18, AR033: 11, AR053: 10, AR089: 9, AR052: 8, AR096: 8, AR055: 7, AR060: 6, AR104: 5, AR061: 5 L0666: 8, L0766: 4, H0038: 3, L0664: 3, L0665: 3, H0265: 2, S0360: 2, H0046: 2, L0663: 2, H0520: 2, L0748: 2, L0751: 2,			75-99	

325	HBGDP38	796622	335	55 - 495	1740		L0749: 2, L0779: 2, L0777: 2, L0758: 2, H0341: 1, H0638: 1, S0356: 1, S0358: 1, S0045: 1, H0261: 1, S0222: 1, H0632: 1, H0427: 1, H0597: 1, T0010: 1, H0266: 1, S0003: 1, H0412: 1, H0561: 1, S0002: 1, L0640: 1, L0638: 1, L0646: 1, L0771: 1, L0768: 1, L0375: 1, L0651: 1, L0776: 1, L0659: 1, L0438: 1, H0547: 1, H0658: 1, L0611: 1, S3014: 1, L0439: 1, L0754: 1, L0747: 1, L0750: 1, L0755: 1 and S0026: 1, AR033: 2, AR096: 2, AR104: 1, AR060: 1, AR089: 1, AR061: 0, AR052: 0, AR055: 0, AR053: 0, AR039: 0 S0028: 3, S0001: 2, S0356: 2, H0617: 2, L0809: 2, L0439: 2, L0731: 2, L0361: 2, S0040: 1, S0045: 1, H0619: 1, S0278: 1, H0250: 1, H0156: 1, H0231: 1, H0181: 1, L0456: 1, L0375: 1, L0783: 1, L0663: 1, H0144: 1, L0438: 1, S0390:			112-128, 72-88
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326	HTXEC55	798103	336	195 - 785	1741	Trp-7 to Gly-21, Arg-24 to Gln-31, Ala-69 to Trp-80, Arg-129 to Pro-135, Ser-142 to Phe-147, Phe-151 to Gly-159.	1, L0747: 1, L0759: 1 and S0031: 1. AR053: 19, AR096: 16, AR052: 16, AR055: 9, AR089: 8, AR061: 6, AR060: 6, AR033: 6, AR039: 3, AR104: 2 L0777: 5, H0265: 2, H0556: 2, S0358: 2, L0351: 2, L0769: 2, L0766: 2, L0666: 2, L0748: 2, L0439: 2, H0657: 1, H0255: 1, H0637: 1, H0549: 1, S0222: 1, H0586: 1, H0427: 1, H0597: 1, H0545: 1, H0012: 1, S0214: 1, H0424: 1, H0213: 1, H0628: 1, H0090: 1, H0412: 1, L0637: 1, L0800: 1, L0644: 1, L0662: 1, L0381: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0790: 1, L0792: 1, L0665: 1, H0547: 1, S0126: 1, H0435: 1, H0670: 1, S0432: 1, L0749: 1, L0758: 1, H0543: 1, H0423: 1 and H0422: 1.				46-64, 111-127, 85-101
327	HFXGI63	799513	337	1879 - 2349	1742	Ala-3 to Thr-27, Arg-29 to Ser-35,	AR055: 9, AR060: 5, AR061: 4, AR033: 3,				62-78, 87- 103

328	HAMGW1 9	799889	338	119 - 475	1743	Ser-50 to Pro-55, Asn-62 to Gly-67.	AR052: 3, AR089: 3, AR096: 2, AR053: 2, AR104: 2, AR039: 1 S0222: 2, H0100: 2, L0438: 2, S0114: 1, S0001: 1, H0208: 1, H0123: 1, H0012: 1, H0620: 1, S6028: 1, H0328: 1, H0413: 1, S0038: 1, T0042: 1, L0439: 1 and L0593: 1.			
329	HDPTA89	800344	339	173 - 949	1744	Thr-4 to Pro-28, Pro-51 to His-62, Pro-83 to Thr-91, Phe-100 to Trp-105, Ile-167 to Gln-182.	AR096: 1, AR052: 1, AR104: 1, AR060: 1, AR089: 1, AR033: 0, AR055: 0, AR061: 0, AR053: 0, AR039: 0 L0777: 11, L0751: 10, L0769: 7, L0758: 6, L0766: 5, H0617: 4, L0771: 4, L0776: 4, L0439: 4, L0757: 4, L0759: 4, H0253: 3, H0494: 3, L0761: 3, H0521: 3, L0754: 3, H0318: 2, H0150: 2, L0794: 2, L0805:			225-248, 106-122

330	HSLDO85	801935	340	100 - 618	1745	Pro-3 to Lys-12, Glu-17 to Leu-23, Ala-148 to Leu-173.	AR055: 12, AR033: 12, AR061: 11, AR089: 10, AR060: 10, AR053: 9, AR052: 8, AR104: 8, AR039: 7, AR096: 6	1p36.3- p36.2	120550, 120570, 120575, 130500, 133200.	25-46, 101-122, 46-62, 126-142	
							2, L0665: 2, L0743: 2, L0750: 2, L0752: 2, H0265: 1, S0342: 1, H0713: 1, S0218: 1, L0785: 1, H0484: 1, L0481: 1, S0420: 1, S0444: 1, H0637: 1, S0045: 1, S0046: 1, H0549: 1, H0486: 1, H0427: 1, H0599: 1, H0618: 1, H0194: 1, T0115: 1, H0597: 1, H0231: 1, H0083: 1, H0266: 1, H0622: 1, H0424: 1, H0213: 1, H0553: 1, H0181: 1, H0087: 1, H0551: 1, H0623: 1, H0100: 1, H0560: 1, S0150: 1, H0695: 1, L0796: 1, L0643: 1, L0662: 1, L0803: 1, L0775: 1, L0809: 1, L0789: 1, L0663: 1, L0664: 1, H0691: 1, S0126: 1, H0682: 1, S0330: 1, S0152: 1, L0749: 1, L0756: 1, L0779: 1, L0780: 1, L0753: 1, H0445: 1 and H0667: 1.				

L0755: 6, L0769: 4, H0009: 3, H0012: 3, L0783: 3, L0749: 3, L0750: 3, L0779: 3, L0731: 3, S0376: 2, H0545: 2, S0051: 2, H0606: 2, H0100: 2, L0638: 2, L0665: 2, S0028: 2, L0751: 2, L0747: 2, L0756: 2, L0758: 2, L0603: 2, H0265: 1, H0294: 1, H0341: 1, S0212: 1, S0410: 1, S0045: 1, H0393: 1, H0549: 1, S0222: 1, H0586: 1, H0331: 1, L0623: 1, T0060: 1, H0581: 1, S0049: 1, H0309: 1, L0471: 1, H0620: 1, H0024: 1, H0266: 1, H0428: 1, H0213: 1, L0456: 1, S0366: 1, S0036: 1, H0040: 1, S0142: 1, L0763: 1, L0371: 1, L0772: 1, L0372: 1, L0646: 1, L0764: 1, L0773: 1, L0766: 1, L0774: 1, L0775: 1, L0776: 1, L0809: 1, L0519: 1, H0520: 1, H0519: 1, S0126: 1, H0660: 1, S0350: 1, S0406: 1, H0436: 1, S3012: 1, L0752: 1, L0757: 1, S0436: 1, L0592: 1, S0276:	153454, 167410, 236250, 256700, 600975
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331	HDQDF38	805499	341	791 - 1792	1746	Pro-3 to Lys-13, Thr-26 to Thr-41.	1 and H0422: 1, AR096: 3, AR089: 2, AR052: 1, AR061: 1, AR033: 1, AR053: 1, AR060: 1, AR055: 0, AR039: 0, AR104: 0 L0766: 7, L0662: 4, L0789: 4, L0748: 4, L0749: 4, L0769: 3, L0776: 3, L0438: 3, H0521: 3, H0556: 2, S0360: 2, L0717: 2, L0794: 2, L0666: 2, L0663: 2, H0547: 2, S0028: 2, L0754: 2, H0422: 2, T0049: 1, H0657: 1, H0411: 1, H0586: 1, H0013: 1, H0098: 1, H0575: 1, L0471: 1, L0163: 1, L0455: 1, S0366: 1, S0036: 1, H0038: 1, H0551: 1, L0763: 1, L0800: 1, L0387: 1, L0803: 1, L0805: 1, L0518: 1, L0809: 1, H0660: 1, H0696: 1, H0555: 1, L0612: 1, S0032: 1, L0742: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0777: 1, L0757: 1, H0423: 1 and L0600: 1.				311-330
332	HULAW69	805628	342	271 -	1747	Phe-44 to Asn-55,	AR033: 14, AR096: 13, H0423: 1 and L0600: 1.				65-84, 20-



678	Arg-86 to Gly-92.	AR104: 11, AR039: 10, AR061: 9, AR052: 9, AR055: 9, AR060: 8, AR089: 8, AR053: 5 S0278: 15, S0126: 14, L0742: 13, L0754: 11, L0758: 10, L0751: 8, L0747: 8, L0748: 7, H0305: 6, S0360: 6, H0530: 6, H0545: 6, L0776: 6, L0744: 6, H0484: 5, H0638: 5, S0007: 5, S0045: 5, H0617: 5, S0144: 5, L0766: 5, L0805: 5, S0027: 5, L0750: 5, L0757: 5, H0445: 5, H0542: 5, H0657: 4, S0046: 4, H0370: 4, S0051: 4, H0424: 4, H0087: 4, H0551: 4, S0142: 4, S0344: 4, L0763: 4, L0770: 4, L0764: 4, L0662: 4, L0768: 4, L0803: 4, L0775: 4, H0539: 4, H0521: 4, L0743: 4, L0752: 4, L0603: 4, H0543: 4, S0040: 3, S0442: 3, S0358: 3, S0408: 3, H0549: 3, H0486: 3, H0544: 3, H0150: 3, H0023: 3, H0510: 3, H0646: 3, L0771: 3, L0773: 3, L0794: 3, L0774:	38
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333	HE9QK23	805751	343	321 - 737	1748	Met-1 to Phe-10, Gly-13 to Leu-56, Gln-132 to Thr-139.	1, L0529: 1, L0647: 1, L0664: 1, S0428: 1, S0216: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, S0378: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S0112: 1, S0037: 1, S0206: 1, L0740: 1, L0749: 1, L0779: 1, L0759: 1, L0605: 1, L0608: 1, S0106: 1, H0216: 1, S0192: 1 and S0276: 1.	1, L0529: 1, L0647: 1, L0664: 1, S0428: 1, S0216: 1, H0144: 1, H0520: 1, H0547: 1, H0689: 1, S0378: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S0112: 1, S0037: 1, S0206: 1, L0740: 1, L0749: 1, L0779: 1, L0759: 1, L0605: 1, L0608: 1, S0106: 1, H0216: 1, S0192: 1 and S0276: 1.				72-96
334	HNTTB36	806145	344	93 - 410	1749		AR055: 8, AR061: 7, AR033: 5, AR089: 4, AR053: 4, AR096: 4, AR052: 4, AR060: 4, AR039: 0, AR104: 0 H0616: 3, L0662: 3, L0754: 3, T0039: 2, L0758: 2, S0360: 1, S0045: 1, S6026: 1, S0222: 1, H0427: 1, H0038: 1, L0769: 1, L0805: 1, L0776: 1, L0659: 1, L0789: 1, H0144: 1, L0779: 1, L0777: 1, L0757: 1 and S0192: 1.	AR055: 8, AR061: 7, AR033: 5, AR089: 4, AR053: 4, AR096: 4, AR052: 4, AR060: 4, AR039: 0, AR104: 0 H0616: 3, L0662: 3, L0754: 3, T0039: 2, L0758: 2, S0360: 1, S0045: 1, S6026: 1, S0222: 1, H0427: 1, H0038: 1, L0769: 1, L0805: 1, L0776: 1, L0659: 1, L0789: 1, H0144: 1, L0779: 1, L0777: 1, L0757: 1 and S0192: 1.	AR033: 8, AR089: 3, AR096: 2, AR104: 2, AR053: 1, AR060: 1, AR061: 1, AR052: 0,	2		48-65

								AR039: 0, AR055: 0 S0346: 1, L0438: 1, H0520: 1, H0547: 1 and H0519: 1.				
335	HETJG63	806385	345	109 - 462	1750			AR060: 10, AR055: 7, AR033: 5, AR096: 4, AR052: 4, AR039: 3, AR089: 3, AR061: 3, AR104: 2, AR053: 2 H0046: 2 and H0616: 1.				64-87
336	HLDRO45	806430	346	186 - 674	1751	Asn-133 to Trp-143, Ala-145 to Phe-151.		AR096: 2, AR039: 1, AR053: 1, AR089: 1, AR055: 1, AR060: 1, AR061: 1, AR033: 1, AR104: 0, AR052: 0 L0748: 11, L0752: 6, H0266: 5, L0770: 4, L0740: 4, L0750: 4, L0596: 4, S0212: 3, L0766: 3, L0803: 3, L0756: 3, H0402: 2, H0427: 2, S0010: 2, T0003: 2, T0067: 2, S0386: 2, T0041: 2, L0769: 2, L0796: 2, L0804: 2, H0576: 2, L0747: 2, H0445: 2, L0588: 2, L0599: 2, H0543: 2, H0556: 1, S6024: 1, H0341: 1, H0306: 1, H0340: 1, H0351: 1, S6014: 1, H0431:				99-130, 13-38, 57- 73, 36-52

337	HFIDZ38	806756	347	45 - 584	1752			1, H0331: 1, T0039: 1, S0280: 1, L0021: 1, H0036: 1, H0390: 1, H0052: 1, H0041: 1, H0123: 1, H0057: 1, H0083: 1, S0023: 1, H0510: 1, S0003: 1, H0628: 1, H0032: 1, H0674: 1, H0598: 1, S0036: 1, H0551: 1, S0448: 1, L0764: 1, L0648: 1, L0768: 1, L0375: 1, L0525: 1, L0809: 1, L0519: 1, L0647: 1, L0788: 1, S0126: 1, H0521: 1, S0406: 1, S3012: 1, S3014: 1, S0027: 1, L0439: 1, L0779: 1, L0757: 1, L0758: 1, H0444: 1, H0595: 1, H0665: 1, S0192: 1, H0423: 1 and H0352: 1.				64-85, 24- 40, 115- 131, 91- 107, 7-23
								AR052: 3, AR033: 3, AR089: 3, AR055: 2, AR096: 2, AR060: 2, AR061: 2, AR039: 2, AR104: 2, AR053: 1 L0439: 5, L0777: 5, H0052: 4, L0803: 4, L0789: 4, L0666: 4, H0556: 3, H0090: 3, L0770: 3, L0766: 3, H0670: 3, L0747: 3, L0756: 3, L0755: 3, S0354:				

338	HLMD095	810257	348	113 - 484	1753	Met-1 to Asn-8.	2, S0408: 2, H0580: 2, L0021: 2, H0135: 2, L0768: 2, L0805: 2, L0809: 2, L0787: 2, L0438: 2, H0547: 2, S0406: 2, L0754: 2, L0745: 2, L0758: 2, L0759: 2, S0192: 2, L0393: 1, H0657: 1, H0656: 1, H0661: 1, H0662: 1, S0356: 1, S0358: 1, S0360: 1, H0549: 1, H0486: 1, H0581: 1, H0009: 1, H0014: 1, H0548: 1, H0268: 1, S0015: 1, S0144: 1, S0344: 1, L0769: 1, L0800: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0632: 1, L0655: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, L0352: 1, H0690: 1, H0521: 1, S0044: 1, L0740: 1, L0749: 1, L0752: 1, L0731: 1, H0543: 1, H0423: 1 and H0506: 1.				25-46, 94- 112, 56-72
							AR089: 28, AR096: 27, AR053: 19, AR052: 18, AR039: 17, AR060: 17, AR033: 14, AR104: 11,				

339	HSLGA19	810406	349	5 - 859	1754	Leu-28 to Arg-33, Glu-44 to Thr-49, Tyr-66 to Arg-72, Pro-82 to Ile-103.	AR055: 11, AR061: 7  AR052: 3, AR055: 3, AR061: 2, AR096: 2, AR089: 2, AR060: 2, AR033: 1, AR053: 1, AR039: 1, AR104: 1 H0381: 1, H0255: 1, S0052: 1 and S0028: 1.				192-213
340	HGBGM53	810461	350	38 - 355	1755	Gln-35 to Leu-40.	AR055: 8, AR052: 8, AR053: 6, AR060: 5, AR061: 4, AR089: 4, AR096: 4, AR033: 4, AR039: 3, AR104: 2 L0439: 6, H0556: 3, H0052: 2, H0413: 2, L0748: 2, L0754: 2, L0731: 2, H0543: 2, H0341: 1, S0418: 1, S0442: 1, S0360: 1, H0734: 1, S0007: 1, S0045: 1, H0393: 1, H0411: 1, H0545: 1, H0569: 1, H0014: 1, H0271: 1, H0416: 1, H0286: 1, H0130: 1, H0649: 1, H0529: 1, L0523: 1, L0438: 1, H0547: 1, H0593: 1, H0435: 1, S0380: 1, L0741: 1, L0744: 1, L0740: 1, L0749: 1, S0434: 1,				55-71, 77- 93



341	HIBCO73	810586	351	3 - 1100	1756			S0436: 1, L0366: 1, H0423: 1 and S0456: 1. AR096: 6, AR053: 6, AR052: 5, AR089: 3, AR055: 3, AR104: 2, AR060: 2, AR033: 2, AR061: 2, AR039: 1 L0748: 6, L0666: 3, L0749: 3, S0420: 2, H0486: 2, L0809: 2, L0789: 2, L0438: 2, H0521: 2, H0542: 2, H0713: 1, H0716: 1, S0212: 1, S0001: 1, H0125: 1, L0617: 1, S0356: 1, S0360: 1, S0300: 1, H0575: 1, H0253: 1, H0318: 1, H0581: 1, H0309: 1, H0081: 1, T0010: 1, H0634: 1, H0412: 1, H0059: 1, H0100: 1, L0769: 1, L0794: 1, L0803: 1, L0774: 1, L0806: 1, L0805: 1, L0659: 1, L0382: 1, L0663: 1, L0665: 1, S0126: 1, L0743: 1, L0777: 1 and L0592: 1.	151-168, 61-77
342	HDPOM13	810899	352	183 - 779	1757	Ser-34 to His-42, Pro-51 to Asp-63.		AR053: 2, AR055: 2, AR033: 1, AR096: 1, AR061: 1, AR104: 1, AR060: 1, AR039: 1.	181-199

343	HMEJR75	811268	353	171 - 671	1758	Asn-20 to Arg-26, Pro-74 to Glu-79.	AR089: 0, AR052: 0 H0521: 8, H0522: 3, H0644: 2, L0769: 2, L0779: 2, H0580: 1, H0549: 1, S0002: 1 and L0791: 1.	2p13	203800, 602404	81-97	
344	HOECE93	812221	354	54 - 575	1759	Leu-27 to Gln-34, Ser-48 to Ile-56, Lys-73 to Ser-86.	AR033: 7, AR055: 6, AR060: 4, AR089: 4, AR052: 4, AR061: 4, AR053: 4, AR039: 2, AR096: 1, AR104: 1 H0266: 2, S0354: 1, H0619: 1, S0250: 1, L0438: 1 and L0758: 1. AR055: 7, AR033: 5, AR096: 5, AR060: 5, AR104: 4, AR061: 3, AR089: 3, AR053: 3, AR052: 2, AR039: 0 H0144: 6, L0803: 4, L0439: 4, L0749: 3, H0421: 2, H0052: 2, L0769: 2, L0774: 2, L0809: 2, L0438: 2, L0747: 2, L0731: 2, L0757: 2, L0758: 2, H0657: 1, L0021: 1, S0049: 1, H0327: 1, H0424: 1, H0674: 1, L0455: 1, L0456: 1, S0002: 1, L0763: 1, L0761: 1, L0642: 1, L0643: 1,			154-174, 126-144	

									L0775: 1, L0793: 1, L0666: 1, H0693: 1, L0352: 1, S0126: 1, S0037: 1, L0742: 1, L0750: 1, L0759: 1 and L0361: 1.				
345	HLHGA65	812445	355	22 - 444	1760	Thr-3 to Ser-16, His-30 to Asp-35, Thr-130 to Leu-135.			AR055: 12, AR052: 10, AR033: 9, AR060: 7, AR053: 7, AR061: 6, AR096: 6, AR089: 5, AR039: 3, AR104: 3 H0617: 4, H0024: 1, S0028: 1 and L0759: 1.				84-111, 39-57
346	HMABF89	812465	356	67 - 552	1761	Cys-20 to Pro-29, Glu-46 to Asp-52, Asp-59 to Ser-73.			AR055: 9, AR060: 7, AR033: 6, AR061: 6, AR089: 5, AR053: 5, AR052: 5, AR096: 4, AR039: 3, AR104: 3 H0717: 2, H0589: 2, S0444: 2, S0386: 2, L3905: 2, H0521: 2, S0356: 1, H0549: 1, H0575: 1, S0010: 1, T0010: 1, H0031: 1, H0553: 1, H0135: 1, H0090: 1, H0551: 1, S0144: 1, S0142: 1, L0521: 1, L0662: 1, L0803: 1, L0775: 1, L0663: 1, S0428: 1, H0144: 1, H0519: 1, H0522: 1, S0028: 1, L0592: 1 and				125-156, 27-46, 100-123

347	HLKDC74	812760	357	195 - 932	1762	Gly-25 to Gly-30, Pro-105 to Val-112, Glu-137 to Cys-146, Pro-215 to Cys-223, Pro-226 to Arg-240.	H0136: 1. AR060: 1, AR055: 1, AR096: 0, AR061: 0, AR039: 0, AR104: 0, AR033: 0, AR089: 0, AR052: 0, AR053: 0 H0542: 2, H0584: 1, H0611: 1, H0592: 1, H0427: 1, L0644: 1, L0648: 1, L0806: 1, H0522: 1, H0543: 1 and H0422: 1.	1p36.3	120550, 120570, 120575, 153454, 236250, 256700	171-200, 4-24
348	HDTAV81	813300	358	311 - 766	1763	Met-1 to Cys-8.	AR053: 11, AR096: 9, AR052: 9, AR039: 6, AR089: 4, AR033: 4, AR055: 3, AR060: 3, AR104: 3, AR061: 2 H0656: 2, H0457: 2, H0634: 2, H0521: 2, H0436: 2, H0341: 1, S0418: 1, H0486: 1, H0581: 1, H0271: 1, L0362: 1 and H0423: 1.			105-122
349	HETIZ34	815417	359	74 - 1915	1764	Pro-46 to Tyr-51.	AR033: 10, AR104: 9, AR055: 8, AR052: 8, AR060: 8, AR089: 6, AR096: 6, AR053: 5, AR061: 3, AR039: 3 S0222: 8, L0662: 8, L0005: 7, L0665: 7, L0659: 6, L0666: 6, H0547: 6,			477-500, 385-401, 448-464, 13-29, 514-530, 581-597, 166-182

L0740: 6, S6028: 4, L0483: 4, L0438: 4, L0754: 4, L0756: 4, L0779: 4, S0194: 4, S0049: 3, S0388: 3, L0646: 3, L0521: 3, L0663: 3, L0664: 3, H0435: 3, H0696: 3, L0439: 3, L0777: 3, H0624: 2, H0171: 2, S0356: 2, S0442: 2, S0354: 2, S0360: 2, S0408: 2, H0046: 2, H0563: 2, L0471: 2, S0051: 2, H0266: 2, H0040: 2, H0623: 2, S0440: 2, L0598: 2, L0520: 2, L0641: 2, L0771: 2, L0768: 2, L0774: 2, L0805: 2, L0776: 2, L0518: 2, L0565: 2, H0519: 2, H0670: 2, H0660: 2, H0648: 2, H0672: 2, S0028: 2, L0751: 2, L0731: 2, L0758: 2, S0031: 2, L0596: 2, L0595: 2, S0026: 2, S0196: 2, H0170: 1, H0686: 1, H0685: 1, H0717: 1, H0381: 1, S0212: 1, H0662: 1, S0418: 1, S0376: 1, S0045: 1, S0046: 1, H0411: 1, H0369: 1, H0550: 1, H0438: 1, H0602: 1, T0040: 1, H0013: 1,
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350	HWLIX39	815669	360	84 - 1052	1765	Ser-4 to Glu-11, Tyr-14 to Lys-29, Arg-101 to Arg-106, Gly-239 to Tyr-246.	AR039: 23, AR104: 15, AR033: 15, AR096: 14, AR052: 12, AR089: 12, AR053: 11, AR055: 9, AR060: 8, AR061: 7 S0406: 2, S0358: 1, S0278:	H0427: 1, S0280: 1, H0590: 1, H0390: 1, S0474: 1, H0052: 1, T0110: 1, H0545: 1, H0178: 1, H0562: 1, H0123: 1, H0373: 1, H0201: 1, H0355: 1, S0003: 1, H0615: 1, H0428: 1, T0006: 1, H0031: 1, H0553: 1, H0032: 1, S0036: 1, H0163: 1, H0551: 1, L0564: 1, L0370: 1, S0370: 1, S0450: 1, L0769: 1, L0637: 1, L5565: 1, L0372: 1, L0773: 1, L0650: 1, L0806: 1, L0527: 1, L0526: 1, L0783: 1, L0809: 1, S0374: 1, H0520: 1, H0682: 1, H0659: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, L0602: 1, S0152: 1, H0555: 1, L0753: 1, L0755: 1, L0759: 1, S0260: 1, S0434: 1, S0436: 1, L0366: 1, H0667: 1 and S0242: 1.					40-65, 197-214, 107-123, 160-176, 63-79
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351	HDTJT12	823632	361	37 - 354	1766	Pro-14 to Gly-23, Arg-93 to Pro-100.	1, H0586: 1, H0253: 1, H0039: 1, H0038: 1 and S0434: 1. AR089: 5, AR060: 3, AR033: 3, AR096: 3, AR039: 1, AR052: 1, AR061: 1, AR055: 0, AR104: 0, AR053: 0 H0618: 5, H0253: 5, L0758: 3, H0370: 2, H0107: 2, H0674: 2, H0135: 2, L0803: 2, H0521: 2, L0747: 2, L0779: 2, H0583: 1, S0212: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0580: 1, S0046: 1, H0619: 1, H0393: 1, H0486: 1, H0635: 1, H0599: 1, H0590: 1, H0083: 1, H0510: 1, H0038: 1, H0488: 1, H0623: 1, H0494: 1, S0382: 1, L0770: 1, L0769: 1, L0648: 1, L0549: 1, L0791: 1, S0052: 1, H0519: 1, H0670: 1, H0666: 1, H0651: 1, S0404: 1, L0748: 1, L0777: 1, L0755: 1, S0434: 1, S0436: 1, L0588: 1, L0593: 1, L0601: 1, H0216: 1 and H0543: 1.	14q32.1	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841	68-93, 39- 59
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352	HSVCA10	824800	362	117 - 455	1767	Glu-14 to Met-26, Leu-77 to Asn-88, Lys-96 to Gly-104.	AR055: 7, AR052: 4, AR060: 4, AR061: 4, AR039: 4, AR053: 4, AR033: 3, AR096: 3, AR089: 2, AR104: 1 H0309: 1			44-64
353	HDFQA53	825910	363	91 - 459	1768	Ala-4 to Glu-13, Gln-80 to Trp-90.	AR039: 54, AR096: 22, AR033: 21, AR053: 21, AR055: 17, AR104: 15, AR089: 13, AR060: 12, AR052: 11, AR061: 9 S0474: 5, L0770: 3, L0790: 3, H0421: 2, S0422: 2, L0769: 2, L0759: 2, H0327: 1, H0566: 1, H0051: 1, S0036: 1, L3905: 1, L0803: 1, L0809: 1 and S0260: 1.			39-64, 57- 79, 89-114
354	HE9PC92	827237	364	309 - 776	1769	Met-1 to Glu-6, Ser-16 to Phe-40, Glu-75 to Leu-83, Cys-86 to Lys-99, Ser-116 to Asp-124, Leu-127 to Glu-136.	AR089: 5, AR060: 5, AR061: 5, AR096: 3, AR055: 3, AR033: 2, AR104: 2, AR039: 2, AR053: 1, AR052: 1 S0046: 1, H0592: 1, H0486: 1, H0013: 1, H0581: 1, L0809: 1 and H0144: 1.			39-73
355	HMSOU92	827837	365	261 - 653	1770	Ser-42 to Ser-47, Arg-91 to Lys-99.	AR039: 14, AR096: 13, AR089: 12, AR060: 10, AR104: 10, AR033: 8,			53-70, 7- 23



356	HE8OX52	828103	366	122 - 457	1771	Cys-29 to Asp-35, Pro-63 to Pro-70.	AR052: 7, AR053: 6, AR055: 5, AR061: 4 S0426: 2 and L0596: 2. AR061: 6, AR033: 5, AR055: 5, AR060: 4, AR104: 3, AR052: 3, AR053: 3, AR089: 2, AR096: 2, AR039: 0 L0415: 1, H0619: 1, H0013: 1, H0052: 1, T0010: 1, H0591: 1, H0521: 1, S3014: 1, L0439: 1, L0596: 1 and S0242: 1.	1p36.33- 1p36.11	120550, 120570, 120575, 130500, 133200, 600975	93-109	
357	HDAAS81	828170	367	115 - 489	1772	Arg-16 to Glu-27, Gln-37 to Phe-44, Cys-52 to Glu-58, Leu-85 to Lys-91.	AR096: 2, AR061: 1, AR033: 1, AR060: 1, AR053: 0, AR104: 0, AR039: 0, AR089: 0, AR055: 0 L0754: 15, L0439: 14, L0666: 7, L0777: 7, S0003: 6, L0163: 4, H0553: 4, H0040: 4, L0803: 4, L0779: 4, L0755: 4, H0624: 3, S0358: 3, L0471: 3, S0426: 3, L0794: 3, L0659: 3, H0547: 3, L0602: 3, H0696: 3, L0748: 3, L0731: 3, L0757: 3, H0295: 2, S0212: 2, H0661: 2, S0376: 2,			97-124	

H0329: 2, S0046: 2, S0132: 2, L0717: 2, H0581: 2, H0023: 2, H0428: 2, H0644: 2, L0662: 2, L0776: 2, L0663: 2, S0374: 2, L0438: 2, H0555: 2, L0744: 2, L0747: 2, S0434: 2, S0242: 2, S0194: 2, S0276: 2, S0196: 2, H0686: 1, S0040: 1, T0049: 1, H0583: 1, S0282: 1, H0255: 1, H0638: 1, S0442: 1, S0444: 1, S0360: 1, H0645: 1, H0351: 1, S0278: 1, H0497: 1, H0333: 1, H0632: 1, H0486: 1, H0013: 1, H0108: 1, H0042: 1, H0575: 1, H0004: 1, H0251: 1, H0263: 1, H0046: 1, H0457: 1, H0024: 1, H0014: 1, H0179: 1, S0214: 1, H0328: 1, L0194: 1, H0628: 1, H0090: 1, H0551: 1, T0067: 1, H0623: 1, L0564: 1, H0633: 1, S0142: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0761: 1, L0372: 1, L0646: 1, L0764: 1, L0648: 1, L0768: 1, L0766: 1, L0774: 1, L0375: 1, L0651: 1,
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358	HUSIK57	828267	368	142 - 471	1773	Gly-71 to Leu-84.	L0805: 1, L0653: 1, L0657: 1, L0789: 1, L0665: 1, H0144: 1, L0565: 1, H0519: 1, H0689: 1, H0682: 1, H0672: 1, S0330: 1, S0152: 1, H0521: 1, H0704: 1, S3014: 1, L0750: 1, L0758: 1, S0260: 1, H0595: 1, S0436: 1, L0591: 1, S0011: 1, H0667: 1, S0192: 1 and H0506: 1. AR052: 8, AR053: 7, AR033: 7, AR055: 5, AR089: 4, AR060: 4, AR096: 3, AR061: 3, AR039: 3, AR104: 2, L0779: 15, L0775: 9, L0758: 9, L0770: 7, L0769: 6, L0740: 5, L0754: 5, L0757: 5, S0408: 4, L0766: 4, L0789: 4, L0777: 4, L0759: 4, L0601: 4, H0224: 3, L0771: 3, L0776: 3, L0747: 3, L0752: 3, L0755: 3, H0549: 2, H0196: 2, H0083: 2, S0150: 2, L0763: 2, L0764: 2, L0787: 2, H0660: 2, L0750: 2, L0780: 2, H0170: 1, H0585: 1, S0040: 1, H0657: 1, H0638:					40-71, 83-99, 32-48
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359	HPRBB67	828597	369	100 - 903	1774	Asp-50 to Ile-64, Gln-66 to Asp-71, Thr-177 to Ser-183, Arg-246 to Thr-263.	1, S0418: 1, S0356: 1, S0358: 1, H0329: 1, S0278: 1, H0550: 1, S0222: 1, H0586: 1, L0622: 1, L0021: 1, H0390: 1, L0471: 1, S0050: 1, H0014: 1, H0594: 1, H0266: 1, H0188: 1, H0615: 1, H0038: 1, H0272: 1, H0412: 1, H0560: 1, S0144: 1, L0772: 1, L0646: 1, L0773: 1, L0768: 1, L0774: 1, L0653: 1, L0655: 1, L0515: 1, L0526: 1, L0783: 1, L0383: 1, H0520: 1, H0648: 1, S0152: 1, S0190: 1, L0742: 1, L0746: 1, L0756: 1, H0542: 1 and H0352: 1.	193-209, 152-168, 117-133	
							AR055: 14, AR060: 9, AR052: 7, AR104: 5, AR096: 5, AR033: 5, AR089: 5, AR053: 4, AR061: 3, AR039: 2 L0794: 7, L0804: 5, L0747: 5, L0800: 4, L0803: 4, S0003: 3, L0752: 3, L0758: 3, H0638: 2, H0169: 2, L0770: 2, L0769: 2, L0774: 2, H0436: 2, L0748: 2, L0439: 2, L0750: 2,		

360	HPIBM51	828682	370	177 - 617	1775	Glu-42 to Ser-53.	L0777: 2, H0265: 1, H0305: 1, S0356: 1, H0013: 1, H0318: 1, H0052: 1, H0309: 1, H0597: 1, L0471: 1, H0032: 1, L0455: 1, T0042: 1, S0142: 1, L0638: 1, L0768: 1, L0775: 1, L0651: 1, L0809: 1, L0788: 1, S0053: 1, S0216: 1, H0144: 1, S0328: 1, H0521: 1, H0523: 1, S0146: 1, H0478: 1, L0780: 1 and L0608: 1.				91-108
361	HLIFY81	828777	371	143 - 919	1776		AR055: 10, AR061: 9, AR060: 6, AR033: 5, AR052: 5, AR089: 4, AR053: 3, AR039: 2, AR096: 1, AR104: 1 H0583: 1, H0415: 1 and S0150: 1. AR033: 15, AR039: 13, AR055: 13, AR053: 12, AR096: 11, AR089: 11, AR052: 11, AR061: 10, AR104: 9, AR060: 8 L0770: 4, L0748: 3, L0750: 3, H0622: 2, H0169: 2, L0769: 2, L0766: 2, L0775: 2, L0806: 2, L0776: 2, H0436: 2, L0741: 2.				227-258

362	HDPLO68	828826	372	398 - 730	1777	Glu-22 to Lys-27, Glu-39 to Asn-44, Met-55 to Ser-60, Leu-71 to Gln-80.	L0740: 2, H0445: 2, H0556: 1, S0114: 1, H0657: 1, S0001: 1, H0255: 1, H0638: 1, S0444: 1, S0046: 1, H0231: 1, H0530: 1, H0546: 1, H0545: 1, H0123: 1, H0012: 1, H0051: 1, H0594: 1, H0039: 1, H0424: 1, H0617: 1, H0560: 1, H0366: 1, H0652: 1, L0369: 1, L0772: 1, L0773: 1, L0662: 1, L0387: 1, L0649: 1, L0783: 1, L0665: 1, S0152: 1, S3012: 1, L0777: 1, L0757: 1, L0758: 1 and H0506: 1.				83-109	
363	HHEUU25	828922	373	174 - 1403	1778	Met-1 to Ser-9.	AR104: 2, AR039: 1, AR096: 1, AR033: 1, AR055: 1, AR060: 1, AR061: 0, AR089: 0, AR053: 0, AR052: 0 S0002: 2, H0431: 1, S0003: 1, H0644: 1, H0521: 1, S0044: 1, S0146: 1 and S0028: 1.			1p32-p34	120950, 120960, 130500, 133200.	305-321

364	HNTBH70	828926	374	49 - 522	1779	Gly-101 to Tyr-110.	AR104: 9, AR061: 9 H0046: 6, L0794: 4, H0547: 4, L0439: 3, L0779: 3, H0543: 3, L0454: 2, L0768: 2, L0663: 2, L0665: 2, L0749: 2, L0777: 2, H0716: 1, H0657: 1, H0662: 1, S0278: 1, T0039: 1, H0013: 1, H0052: 1, L0471: 1, H0591: 1, H0264: 1, S0440: 1, S0150: 1, S0002: 1, L0369: 1, L0640: 1, L0770: 1, L0662: 1, L0766: 1, L0803: 1, L0804: 1, L0378: 1, L0806: 1, L0666: 1, H0519: 1, H0539: 1, H0521: 1, S0176: 1, H0555: 1, L0747: 1, L0755: 1, L0731: 1, L0758: 1, L0362: 1 and S0424: 1.	138140, 168360, 171760, 171760, 176100, 176100, 178300, 187040, 230000, 255800, 600101, 600650, 600650, 600722, 600722		81-99
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365	HMIAN37	828988	375	55 - 1137	1780	Asp-42 to Lys-57.	L0745: 2, L0756: 2, H0624: 1, H0171: 1, S0278: 1, H0389: 1, H0431: 1, H0632: 1, H0156: 1, L0157: 1, H0510: 1, H0416: 1, S0336: 1, S0003: 1, H0428: 1, H0553: 1, H0169: 1, H0212: 1, H0040: 1, H0634: 1, L0638: 1, L0662: 1, L0803: 1, L0804: 1, L0650: 1, L0774: 1, L0776: 1, L0655: 1, L0809: 1, L0791: 1, S0052: 1, H0519: 1, L0355: 1, H0696: 1, H0436: 1, H0478: 1, L0779: 1, L0755: 1, S0436: 1 and H0543: 1. AR061: 3, AR033: 2, AR089: 2, AR060: 2, AR096: 1, AR052: 1, AR055: 1, AR104: 1, AR053: 1, AR039: 0 S0414: 26, L0777: 8, L0758: 8, L0439: 5, L0779: 5, L0752: 4, L0471: 3, H0266: 3, H0032: 3, S0422: 3, L0766: 3, L0803: 3, L0809: 3, S0380: 3, L0740: 3, L0731: 3, S0192: 3, H0170: 2, H0657: 2, S0358: 2, S6016: 2, H0574: 2,					15-31, 172-190
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				H0052: 2, H0009: 2, H0051: 2, S6028: 2, H0090: 2, H0591: 2, S0440: 2, L0653: 2, L0666: 2, L0663: 2, H0689: 2, H0658: 2, L0745: 2, L0747: 2, L0750: 2, L0753: 2, H0423: 2, S0412: 2, H0171: 1, H0656: 1, S0360: 1, S0408: 1, H0728: 1, L0717: 1, H0351: 1, H0411: 1, S0222: 1, H0392: 1, H0455: 1, H0587: 1, T0114: 1, S0474: 1, H0309: 1, H0263: 1, H0596: 1, H0046: 1, H0083: 1, S0022: 1, H0615: 1, H0428: 1, H0553: 1, H0628: 1, H0212: 1, H0068: 1, S0036: 1, H0268: 1, H0623: 1, T0069: 1, H0494: 1, S0438: 1, H0633: 1, H0529: 1, L0637: 1, L0764: 1, L0771: 1, L0794: 1, L0388: 1, L0804: 1, L0774: 1, L0805: 1, L0607: 1, L0659: 1, L0636: 1, L0647: 1, L0790: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0519: 1, S0328: 1, S0378: 1, H0518: 1, S0152: 1, H0521: 1.
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366	HPFDI25	829071	376	83 - 862	1781		H0696: 1, S3012: 1, L0742: 1, L0756: 1, L0759: 1, H0445: 1, S0434: 1, L0581: 1, S0011: 1, H0653: 1, H0667: 1, S0242: 1, H0422: 1 and S0042: 1.  AR033: 72, AR055: 60, AR089: 41, AR052: 40, AR053: 38, AR060: 37, AR061: 25, AR096: 11, AR104: 6, AR039: 4 L0777: 15, L0766: 7, L0776: 6, L0751: 6, L0770: 4, L0775: 4, L0806: 4, L0805: 4, L0780: 4, S0214: 3, L0769: 3, L0774: 3, L0755: 3, H0599: 2, S0003: 2, L0768: 2, L0803: 2, L0807: 2, L0788: 2, L0743: 2, L0740: 2, L0754: 2, L0756: 2, L0779: 2, L0752: 2, L0758: 2, L0591: 2, L0603: 2, H0159: 1, H0661: 1, S0045: 1, S0222: 1, L0586: 1, H0575: 1, S0010: 1, S0474: 1, H0309: 1, S0050: 1, S0051: 1, S0022: 1, H0553: 1, H0169: 1, H0591: 1, H0038: 1, H0634: 1, S0142: 1, S0422: 1,				141-158, 1-17, 102- 118
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367	HIBCN93	829308	377	282 - 938	1782	Met-1 to Asn-12, Glu-17 to Gln-26, Thr-43 to Ser-70, Ala-72 to Lys-88, Asp-131 to Val-136, Val-183 to Asp-190, Pro-192 to Ala-203.	L0369: 1, L0771: 1, L0521: 1, L0655: 1, L0783: 1, L0787: 1, S0374: 1, H0659: 1, S0152: 1, S3012: 1, L0439: 1, L0747: 1, L0750: 1, S0026: 1 and H0543: 1. AR053: 2, AR052: 2, AR096: 2, AR089: 2, AR033: 1, AR104: 1, AR055: 1, AR039: 1, AR060: 1, AR061: 1 L0740: 12, L0439: 10, L0766: 7, L0769: 4, L0794: 4, L0756: 4, H0549: 3, L0768: 3, L0803: 3, L0665: 3, S0206: 3, L0750: 3, H0423: 3, S0007: 2, S0010: 2, S0346: 2, H0052: 2, H0327: 2, H0024: 2, H0051: 2, L0763: 2, L0770: 2, H0144: 2, L0758: 2, H0556: 1, L0760: 1, S6026: 1, S0300: 1, H0550: 1, S0222: 1, H0392: 1, H0331: 1, H0013: 1, H0318: 1, S0049: 1, H0194: 1, H0103: 1, H0050: 1, L0471: 1, H0620: 1, H0373: 1, S0388: 1, T0010: 1, H0399: 1, H0553: 1, H0644: 1, H0032: 1,	6q21-q23.2	107470, 107470, 107470, 120110, 121014, 164200, 164200, 601316, 601666, 601757, 602772	88-106	
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368	HCU DM68	829463	378	14 - 457	1783	Asp-9 to Tyr-15, Pro-27 to Lys-48, Ser-61 to Asn-67, Asp-104 to Asn-113.	<p>H0124: 1, H0068: 1, S0036: 1, H0135: 1, H0038: 1, H0616: 1, H0551: 1, T0067: 1, H0100: 1, H0560: 1, H0561: 1, L0662: 1, L0649: 1, L0774: 1, L0517: 1, L0809: 1, L0647: 1, L0789: 1, L0792: 1, L0352: 1, S0126: 1, H0539: 1, S0380: 1, H0518: 1, S0004: 1, S0044: 1, S3014: 1, L0748: 1, L0747: 1, L0686: 1, L0592: 1, S0196: 1 and H0352: 1.</p> <p>AR089: 23, AR096: 19, AR052: 18, AR039: 15, AR053: 15, AR033: 14, AR060: 9, AR055: 8, AR061: 7, AR104: 6, L0748: 10, L0766: 9, L0777: 9, L0776: 7, L0749: 7, L0756: 7, H0486: 6, L0754: 6, L0662: 5, L0747: 5, H0009: 4, S0036: 4, S0210: 4, L0771: 4, L0794: 4, L0439: 4, L0779: 4, L0752: 4, S0116: 3, S0045: 3, H0550: 3, H0599: 3, H0581: 3, H0039: 3, L0770: 3, L0805: 3, L0740: 3,</p>	1p32-p31	<p>120950, 120960, 138140, 178300, 180069, 180069, 180069, 187040, 201450, 248610, 600101, 600309, 600650, 600650, 600722, 600722,</p>	69-86	
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L0755: 3, L0731: 3, L0758: 3, L0599: 3, S0412: 3, S0410: 2, H0645: 2, H0369: 2, S0222: 2, H0497: 2, H0013: 2, H0251: 2, H0083: 2, H0615: 2, S0422: 2, L0631: 2, L0764: 2, L0803: 2, L0774: 2, L0775: 2, L0527: 2, L0659: 2, H0519: 2, H0711: 2, H0670: 2, H0539: 2, S0350: 2, H0436: 2, L0745: 2, L0750: 2, L0362: 2, L0600: 2, H0624: 1, H0171: 1, H0265: 1, H0556: 1, T0002: 1, H0717: 1, S6024: 1, T0049: 1, H0583: 1, H0650: 1, S0001: 1, H0662: 1, H0402: 1, H0638: 1, S0356: 1, S0376: 1, S0360: 1, H0329: 1, H0729: 1, H0728: 1, L0717: 1, H0351: 1, H0441: 1, H0455: 1, H0592: 1, H0586: 1, H0492: 1, H0485: 1, T0040: 1, H0244: 1, H0427: 1, L0022: 1, H0004: 1, S0010: 1, S0346: 1, T0048: 1, H0052: 1, H0596: 1, H0597: 1, H0046: 1, H0050: 1, I0471: 1 H0024: 1		601676, 602522
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369	HCFCU33	829601	379	830 - 279	1784	Asp-37 to Tyr-46, Asn-48 to Gly-55, Ala-58 to Gly-65, Thr-68 to Trp-81, Ser-89 to Thr-101,	H0051: 1, S6028: 1, S0003: 1, H0428: 1, T0023: 1, L0483: 1, H0169: 1, L0456: 1, H0163: 1, H0090: 1, H0038: 1, H0040: 1, T0067: 1, H0380: 1, H0433: 1, H0268: 1, T0041: 1, H0494: 1, H0561: 1, H0646: 1, S0208: 1, S0002: 1, S0426: 1, H0743: 1, H0529: 1, L0520: 1, L0763: 1, L0667: 1, L0627: 1, L0800: 1, L0378: 1, L0806: 1, L0658: 1, L0512: 1, L0542: 1, L0783: 1, L0809: 1, L0519: 1, L0788: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, H0144: 1, H0682: 1, H0659: 1, H0672: 1, S0330: 1, H0521: 1, H0478: 1, H0626: 1, L0780: 1, L0759: 1, H0444: 1, S0434: 1, L0596: 1, L0581: 1, L0601: 1, H0668: 1, H0667: 1, S0194: 1, H0423: 1 and : 1, AR039: 4, AR053: 3, AR089: 3, AR033: 3, AR055: 3, AR096: 2, AR060: 2, AR061: 2, AR104: 1, AR052: 0	5q31.1	131400, 147061, 147575, 147575, 147575,	108-137, 137-168
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					Leu-105 to Arg-110.	H0545: 2, H0135: 2, S0342: 1, H0484: 1, S0358: 1, S0278: 1, H0550: 1, H0370: 1, H0574: 1, H0492: 1, H0599: 1, H0575: 1, H0546: 1, H0123: 1, H0050: 1, H0012: 1, H0620: 1, S0051: 1, H0100: 1, H0494: 1, S0352: 1, H0132: 1, H0130: 1, L0764: 1, L0766: 1, H0144: 1, H0519: 1, S0126: 1, H0670: 1, H0660: 1, H0696: 1, S014: 1, L0748: 1, L0745: 1, L0756: 1, L0731: 1, H0445: 1, L0595: 1, S0196: 1 and H0422: 1.	153455, 159000, 181460, 600807, 601596, 602089		
370	HTGCM10	829736	380	2389 - 1391	1785	Arg-5 to Ser-10, Ser-29 to Ser-39, Tyr-99 to Asp-104, Asp-115 to Ile-129, Gln-131 to Asp-136, Ser-208 to Ser-215, Lys-236 to Glu-247, Ser-307 to Ser-316, His-325 to Asn-331.	AR055: 8, AR052: 7, AR096: 5, AR089: 5, AR033: 5, AR060: 5, AR053: 5, AR061: 4, AR104: 3, AR039: 2, L0748: 10, L0740: 8, L0754: 7, L0770: 5, H0539: 5, L0439: 5, L0362: 5, H0641: 4, L0777: 4, L0599: 4, L0603: 4, S0444: 3, H0486: 3, L0804: 3, H0547: 3, L0749: 3, L0750: 3, H0663: 2, S0360: 2, S0045:	258-274, 217-233, 182-198	

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371	HFIIS05	830029	381	66 - 575	1786	Arg-9 to Thr-17, Lys-74 to Arg-89, Arg-135 to Glu-143, Ser-164 to Thr-170.	1, L0653: 1, L0776: 1, L0636: 1, L0792: 1, L0666: 1, H0520: 1, H0519: 1, H0593: 1, S0126: 1, H0659: 1, H0658: 1, H0710: 1, H0436: 1, S0027: 1, L0744: 1, L0747: 1, L0780: 1, L0752: 1, L0755: 1, L0758: 1, L0759: 1, S0436: 1, L0591: 1, L0592: 1 and S0276: 1.								102-118, 54-70
							AR052: 8, AR096: 7, AR033: 7, AR104: 5, AR053: 5, AR089: 4, AR060: 4, AR055: 4, AR061: 3, AR039: 3 H0556: 11, H0046: 7, H0617: 6, L0750: 6, L0769: 5, L0766: 5, L0759: 5, S0434: 5, H0265: 3, H0584: 3, S0358: 3, S0360: 3, H0266: 3, L0770: 3, L0771: 3, L0439: 3, L0749: 3, H0543: 3, H0657: 2, H0484: 2, S0420: 2, S0007: 2, H0497: 2, H0623: 2, H0494: 2, S0440: 2, L0763: 2, L0764: 2, L0666: 2, H0144: 2, S0328: 2, S0330: 2, S0406: 2, L0751: 2, L0754:								

[illegible]

372	H2CBH25	830128	382	150 - 770	1787		AR052: 48, AR033: 27, AR104: 25, AR061: 24, AR060: 23, AR096: 18, AR053: 18, AR089: 15, AR055: 13, AR039: 4 T0110: 1, H0032: 1, H0212: 1, H0090: 1 and H0494: 1.			96-114, 5-21
373	HWLFQ55	830262	383	5 - 631	1788	Lys-4 to Glu-11.	AR089: 20, AR096: 9, AR052: 8, AR053: 6, AR060: 5, AR033: 4, AR039: 3, AR055: 3, AR104: 3, AR061: 2 S0354: 3, H0050: 1, L0483: 1 and H0670: 1.			28-59, 86-102
374	HWLBK80	830339	384	231 - 548	1789		AR096: 9, AR104: 9, AR033: 7, AR089: 6, AR039: 5, AR060: 5, AR053: 4, AR052: 3, AR061: 2, AR055: 2 S0374: 2			76-92, 53-69
375	HWHQR45	830348	385	75 - 911	1790	Ile-72 to Asn-77, Asp-98 to Gly-104.	AR033: 5, AR053: 5, AR052: 4, AR055: 4, AR089: 3, AR061: 2, AR060: 2, AR096: 1, AR104: 0, AR039: 0 H0663: 1, H0586: 1, H0587: 1, H0039: 1, S0440: 1 and L0771: 1.			10-30, 41-57, 171-187, 194-210

376	HTTDO45	830542	386	447 - 1637	1791	Leu-184 to Trp-190, Val-208 to Met-217, Glu-221 to Thr-228, Val-238 to Gly-243, Asp-266 to Asn-272, Arg-370 to Lys-375.	AR060: 13, AR061: 11, AR089: 6, AR033: 5, AR104: 4, AR053: 4, AR096: 3, AR039: 3, AR055: 2, AR052: 2, L0803: 30, S0358: 13, S0360: 6, S0438: 6, L0794: 6, L0774: 6, L0805: 6, H0717: 5, S0408: 5, S0440: 5, L0769: 5, L0775: 5, L0777: 5, S0444: 4, H0510: 4, L0439: 4, L0747: 4, L0731: 4, L0757: 4, L0601: 4, S0026: 4, H0556: 3, H0509: 3, L0662: 3, L0776: 3, L0807: 3, S0406: 3, L0581: 3, L0608: 3, H0624: 2, T0002: 2, S0218: 2, S0354: 2, H0722: 2, S0007: 2, H0333: 2, H0574: 2, H0599: 2, L0471: 2, H0373: 2, H0188: 2, H0644: 2, H0040: 2, L0761: 2, L0363: 2, L0651: 2, L0659: 2, L0783: 2, L0789: 2, H0521: 2, S0028: 2, L0744: 2, L0748: 2, L0745: 2, L0749: 2, S0436: 2, L0588: 2, L0362: 2, T0049: 1, H0657: 1, H0341: 1, H0638: 1,	18			376-392, 278-294, 246-262
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377	HRGDD63	830829	387	38 - 370	1792	Phe-2 to His-9, Cys-16 to His-23, Val-31 to Arg-37, Pro-104 to Tyr-111.	S0442: 1, H0637: 1, H0441: 1, H0431: 1, H0586: 1, L0623: 1, H0013: 1, S0280: 1, H0575: 1, T0082: 1, H0581: 1, S0049: 1, L0033: 1, H0596: 1, L0040: 1, H0231: 1, S0362: 1, H0355: 1, H0622: 1, T0023: 1, S0366: 1, H0135: 1, H0163: 1, H0591: 1, H0551: 1, H0059: 1, L0564: 1, S0142: 1, S0344: 1, L0764: 1, L0773: 1, L0768: 1, L0766: 1, L0389: 1, L0804: 1, L0376: 1, L0527: 1, L0809: 1, L0665: 1, H0144: 1, H0723: 1, H0547: 1, H0519: 1, S0126: 1, H0672: 1, S0330: 1, H0522: 1, H0134: 1, S0037: 1, L0754: 1, L0752: 1, L0755: 1, S0031: 1, H0707: 1, H0667: 1, H0542: 1, H0543: 1 and H0008: 1.				36-64, 76-92
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	H0457: 8, H0584: 6, L0779: 6, H0521: 5, L0766: 4, L0776: 4, L0748: 4, L0777: 4, H0265: 3, H0585: 3, H0529: 3, L0805: 3, L0749: 3, H0556: 2, H0550: 2, H0087: 2, L0662: 2, S0052: 2, L0438: 2, S0126: 2, L0747: 2, L0752: 2, H0543: 2, H0167: 1, S0040: 1, H0294: 1, S0116: 1, H0341: 1, H0638: 1, S0360: 1, H0586: 1, H0497: 1, L0021: 1, H0231: 1, H0544: 1, H0545: 1, H0046: 1, H0123: 1, H0057: 1, H0416: 1, H0687: 1, H0290: 1, H0030: 1, L0455: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0100: 1, H0560: 1, S0426: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0800: 1, L0803: 1, L0378: 1, L0806: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, S0428: 1, S0053: 1, S0216: 1, H0520: 1, H0682: 1, H0670: 1, H0518: 1, H0694: 1, H0134: 1, H0576: 1, L0754: 1, L0750: 1.
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378	HTNBX62	830831	388	897 - 1235	1793	Glu-10 to Arg-21, Arg-31 to Lys-47, Val-58 to Glu-63.	L0755: 1, L0731: 1, L0758: 1, S0031: 1, S0011: 1, H0136: 1, H0423: 1 and H0422: 1. AR052: 36, AR053: 32, AR096: 24, AR089: 16, AR033: 13, AR039: 12, AR055: 12, AR060: 10, AR104: 10, AR061: 5 S0358: 9, S0380: 2, H0656: 1, S0418: 1, H0580: 1, H0587: 1, H0632: 1, H0581: 1, H0046: 1, H0024: 1, S0003: 1, T0023: 1, H0388: 1, T0067: 1, H0561: 1, H0641: 1, H0529: 1, H0651: 1, S0152: 1, H0522: 1, L0747: 1, L0779: 1, L0777: 1, L0752: 1, H0445: 1 and H0422: 1.				92-113, 72-88
379	HLICA76	831204	389	154 - 1320	1794		AR096: 3, AR053: 1, AR052: 1, AR089: 1, AR060: 1, AR033: 1, AR039: 0, AR061: 0, AR104: 0, AR055: 0 L0439: 11, L0777: 10, L0803: 9, L0794: 6, L0766: 6, L0438: 6, S0358: 4, L0764: 3, L0809: 3, L0789: 4				131-147, 185-201, 113-129

380	HAPOA59	831307	390	354 - 935	1795	Phe-19 to Arg-27, Pro-46 to Phe-54, Ser-85 to Leu-91, Arg-115 to Thr-122.	AR055: 10, AR052: 9, AR060: 8, AR053: 8, AR033: 7, AR061: 7, AR096: 6, AR089: 6,	3, L0748: 3, L0740: 3, H0355: 2, L0435: 2, L0775: 2, L0530: 2, S0380: 2, L0747: 2, L0756: 2, L0758: 2, L0588: 2, L0362: 2, H0171: 1, H0556: 1, H0713: 1, H0583: 1, L0418: 1, S0282: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, S0278: 1, T0040: 1, H0069: 1, H0120: 1, H0581: 1, H0046: 1, H0024: 1, H0510: 1, S6028: 1, H0615: 1, H0428: 1, L0483: 1, H0038: 1, H0413: 1, S0438: 1, S0426: 1, L0796: 1, L0646: 1, L0645: 1, L0767: 1, L0768: 1, L0650: 1, L0375: 1, L0776: 1, L0659: 1, L4559: 1, L0665: 1, S0374: 1, H0547: 1, H0519: 1, H0672: 1, H0710: 1, S0044: 1, S0406: 1, L0750: 1, L0779: 1, L0755: 1, L0731: 1, S0026: 1, H0216: 1, H0542: 1 and S0424: 1.					128-144
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381	IHLMMX3 7	831314	391	112 - 450	1796	Arg-13 to Gln-20.	AR104: 4, AR039: 4 L0766: 4, L0438: 4, H0013: 3, H0575: 3, H0050: 3, H0616: 3, S0126: 3, L0439: 3, L0757: 3, L0758: 3, H0556: 2, H0341: 2, T0110: 2, H0572: 2, L0770: 2, L0803: 2, L0759: 2, S0420: 1, S0360: 1, S0408: 1, S0132: 1, H0619: 1, S6016: 1, T0109: 1, H0318: 1, H0266: 1, S0250: 1, H0615: 1, H0428: 1, H0039: 1, S0036: 1, H0135: 1, H0591: 1, H0038: 1, H0040: 1, H0056: 1, T0041: 1, H0560: 1, L0769: 1, L0637: 1, L0794: 1, L0804: 1, L0666: 1, L0664: 1, H0144: 1, H0520: 1, H0519: 1, H0648: 1, H0539: 1, S0152: 1, H0696: 1, S0406: 1, H0540: 1, L0748: 1, L0740: 1, L0747: 1, L0756: 1, L0752: 1, L0592: 1, L0581: 1, L0593: 1, L0096: 1 and H0423: 1.	AR055: 10, AR033: 6, AR052: 6, AR096: 5, AR060: 5 AR053: 5	58-79
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382	HWLHW6 4	831475	392	115 - 990	1797	Lys-113 to Thr-119, Asp-156 to Gly-162.	AR061: 5, AR089: 5, AR104: 3, AR039: 2 S0192: 7, L0803: 5, L0800: 4, L0789: 4, L0758: 4, L0804: 3, L0747: 3, H0255: 2, L0764: 2, L0659: 2, L0666: 2, L0754: 2, L0779: 2, S0420: 1, L0617: 1, S0376: 1, H0550: 1, H0618: 1, H0597: 1, H0350: 1, H0266: 1, H0286: 1, H0688: 1, H0622: 1, H0616: 1, H0494: 1, L0761: 1, L0645: 1, L0774: 1, L0656: 1, L0382: 1, L0809: 1, H0684: 1, S0436: 1, L0601: 1 and H0665: 1.					247-263, 129-145
							AR052: 10, AR096: 7, AR053: 7, AR033: 7, AR089: 5, AR060: 5, AR104: 3, AR055: 2, AR039: 2, AR061: 2 H0031: 9, L0659: 7, S0358: 5, H0622: 5, H0494: 5, L0743: 4, S0132: 3, H0040: 3, L0800: 3, L0771: 3, S0354: 2, S0408: 2, H0014: 2, L0483: 2, L0764: 2, L0783: 2, L0438: 2, L0587: 2, L0601: 2, S0114:					

383	HHERA41	831577	393	447 - 860	1798	Tyr-14 to Leu-27, Glu-39 to Ser-47.	1, H0661: 1, S0356: 1, S0442: 1, S0360: 1, H0592: 1, H0587: 1, H0036: 1, H0590: 1, H0024: 1, H0510: 1, H0252: 1, H0039: 1, H0553: 1, S0440: 1, L0772: 1, L0646: 1, L0374: 1, L0773: 1, L0766: 1, L0803: 1, L0804: 1, L0774: 1, L0784: 1, L0806: 1, L0653: 1, L0655: 1, S0374: 1, S0328: 1, S3012: 1, L0749: 1, L0731: 1, L0758: 1 and H0677: 1. AR096: 5, AR033: 4, AR053: 4, AR104: 4, AR060: 3, AR052: 3, AR055: 3, AR089: 3, AR039: 2, AR061: 2 L0758: 3, S0358: 2, H0521: 2, L0439: 2, S0114: 1, H0341: 1, S0442: 1, H0734: 1, H0411: 1, H0592: 1, S0280: 1, L0021: 1, H0263: 1, S0214: 1, S0438: 1, S0422: 1, L0764: 1, L0766: 1, L0776: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, H0696: 1, L0748: 1, L0740: 1, L0745: 1,					102-120, 69-85, 50- 66
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384	HFXJT43	831638	394	10 - 528	1799	Asn-2 to Gly-7, Thr-24 to Ser-29, Pro-65 to Ser-70, Ser-126 to Thr-132, Thr-161 to Leu-166.	L0777: 1, L0755: 1, L0759: 1, L0596: 1 and H0543: 1. AR055: 14, AR053: 13, AR052: 12, AR060: 12, AR033: 10, AR096: 10, AR089: 8, AR061: 7, AR104: 6, AR039: 4 H0596: 4, L0754: 4, H0521: 3, L0439: 3, H0580: 2, H0486: 2, T0010: 2, S0250: 2, H0616: 2, L0740: 2, L0759: 2, H0624: 1, H0171: 1, S0282: 1, S0046: 1, H0485: 1, H0156: 1, H0581: 1, H0051: 1, H0355: 1, S0003: 1, S0214: 1, H0111: 1, H0090: 1, H0264: 1, S0386: 1, L0766: 1, L0651: 1, S0122: 1, H0518: 1, S0152: 1, H0522: 1, L0744: 1, L0777: 1, L0731: 1, L0758: 1, S0436: 1 and S0242: 1.			107-123, 142-158
385	HE8CL14	831872	395	304 - 1671	1800	Gly-37 to Leu-43, Ala-114 to Arg-122.	AR053: 17, AR096: 15, AR052: 14, AR055: 13, AR089: 11, AR060: 10, AR033: 8, AR061: 8, AR104: 7, AR039: 3 L0754: 6, L0766: 4,			122-150, 311-340, 1-34, 46- 65, 289- 309, 223- 243, 18-34

386	HLWFJ59	832119	396	10 - 1077	1801	Gly-22 to Arg-31, Pro-33 to Pro-40, Ala-44 to Lys-51, Ser-57 to Asp-62, Ser-68 to Lys-95.	S0354: 3, L0764: 3, L0803: 3, L0748: 3, H0638: 2, H0013: 2, H0051: 2, S0002: 2, L0805: 2, L0664: 2, L0777: 2, L0731: 2, L0758: 2, L0759: 2, H0721: 2, H0624: 1, H0171: 1, H0556: 1, H0661: 1, H0486: 1, H0318: 1, H0009: 1, H0570: 1, H0594: 1, S0214: 1, H0169: 1, H0038: 1, H0616: 1, H0561: 1, L0761: 1, L0651: 1, L0790: 1, L0792: 1, H0648: 1, H0672: 1, L0439: 1, L0745: 1, L0779: 1, L0752: 1, L0596: 1, L0599: 1 and L0362: 1.					326-344, 172-188
						AR033: 5, AR089: 4, AR060: 3, AR061: 2, AR096: 1, AR053: 1, AR055: 1, AR052: 0, AR104: 0, AR039: 0 L0439: 8, L0777: 8, L0666: 4, S0010: 3, H0615: 3, L0637: 3, L0659: 3, L0664: 3, H0648: 3, L0748: 3, L0731: 3, S0412: 3, S0132: 2, S0476: 2, S0222: 2, H0497: 2, H0031: 2, L0774: 2, L0665: 2, H0144:						

387	HAJCQ05	832451	397	100 - 885	1802	Pro-70 to Lys-75, Leu-159 to Gln-173, Arg-227 to Glu-235.	2, L0438: 2, L0754: 2, L0757: 2, L0758: 2, S0194: 2, H0171: 1, H0265: 1, H0717: 1, S0110: 1, H0669: 1, S0358: 1, S0300: 1, H0369: 1, H0550: 1, S0616: 1, S0414: 1, H0013: 1, H0427: 1, H0599: 1, H0327: 1, H0123: 1, H0553: 1, H0628: 1, H0032: 1, H0264: 1, H0488: 1, S0438: 1, L0769: 1, L0805: 1, L0809: 1, L0663: 1, S0374: 1, S0148: 1, H0435: 1, H0659: 1, H0670: 1, S0328: 1, S0004: 1, H0696: 1, L0744: 1, L0753: 1, L0755: 1, L0759: 1, S0031: 1, S0434: 1, H0667: 1 and H0506: 1. AR052: 8, AR039: 7, AR033: 7, AR061: 6, AR089: 6, AR096: 6, AR104: 5, AR055: 5, AR053: 4, AR060: 4, H0617: 5, S0418: 4, L0769: 4, L0751: 3, L0731: 3, H0657: 2, H0635: 2, H0618: 2, H0581: 2, H0546: 2, H0606: 2, H0561: 2, L0794: 2, L0439: 2, S0284:					43-62, 120-137, 98-114, 9- 25, 200- 216
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388	HAGHC54	832485	398	208 - 597	1803	Ser-119 to Cys-125.	1, H0265: 1, S0420: 1, S0358: 1, S0046: 1, H0486: 1, H0253: 1, H0318: 1, H0545: 1, H0510: 1, S0314: 1, L0483: 1, H0213: 1, H0551: 1, H0380: 1, H0647: 1, L0644: 1, L0764: 1, L0499: 1, L0655: 1, L0659: 1, L0666: 1, H0698: 1, H0547: 1, H0670: 1, H0672: 1, S3012: 1, L0754: 1, L0745: 1, L0749: 1, L0779: 1, L0758: 1, H0445: 1 and H0543: 1. AR089: 6, AR052: 6, AR060: 6, AR033: 6, AR055: 5, AR096: 4, AR053: 3, AR061: 3, AR104: 2, AR039: 1 L0748: 8, S0346: 2, H0144: 2, L0754: 2, H0656: 1, S0358: 1, S0408: 1, H0331: 1, H0620: 1, L0805: 1, L0531: 1, H0682: 1 and S0424: 1. AR053: 3, AR033: 2, AR055: 2, AR052: 1, AR060: 1, AR061: 0, AR096: 0 AR089: 0					45-65, 99- 118
389	HULAY53	832587	399	181 - 516	1804		2 AR053: 3, AR033: 2, AR055: 2, AR052: 1, AR060: 1, AR061: 0, AR096: 0 AR089: 0				91-107, 74-90	

390	HE9DL48	832624	400	9 - 458	1805	Met-1 to Gly-7.	AR039: 0, AR104: 0 AR096: 170, AR052: 156, AR089: 119, AR060: 98, AR053: 72, AR039: 53, AR104: 47, AR033: 42, AR061: 39, AR055: 14 H0144: 2				95-113, 24-40
391	HFKEH50	833067	401	323 - 1603	1806	Ser-107 to Gly-115, Cys-202 to Thr-214, Glu-241 to Gly-248, Thr-265 to Leu-276, Gly-298 to Gly-305, Ala-382 to Gly-389, Thr-402 to Gly-414.	AR089: 3, AR060: 1, AR053: 1, AR033: 1, AR039: 0, AR104: 0, AR096: 0, AR052: 0, AR061: 0, AR055: 0 L0439: 8, L0751: 6, L0747: 6, L0665: 5, L0438: 4, L0779: 4, H0012: 3, L0748: 3, H0620: 2, H0594: 2, H0424: 2, H0553: 2, S0144: 2, L0769: 2, L0771: 2, L0809: 2, H0144: 2, H0593: 2, S0027: 2, L0777: 2, L0758: 2, L0587: 2, H0422: 2, H0171: 1, H0664: 1, H0619: 1, S0222: 1, H0492: 1, H0618: 1, H0581: 1, H0052: 1, H0150: 1, H0024: 1, S0388: 1, S0364: 1, H0135: 1, H0040: 1, L0640: 1, L0761: 1, L0372:				83-103, 223-239



392	HUSXK49	834541	402	966 - 475	1807	Asn-34 to Arg-43, Arg-96 to Phe-102, Phe-106 to Gly-121, Gln-153 to Thr-158.	1, L0773: 1, L0648: 1, L0662: 1, L0766: 1, L0774: 1, L0629: 1, L0666: 1, L0664: 1, H0658: 1, H0521: 1, S3014: 1 and H0543: 1. AR039: 24, AR053: 17, AR052: 17, AR033: 16, AR055: 14, AR089: 13, AR096: 12, AR104: 9, AR060: 9, AR061: 7 L0758: 4, H0014: 1, S0051: 1, H0038: 1, H0413: 1, H0529: 1, L0770: 1, L0769: 1, L0794: 1 and L0752: 1.				52-69, 77- 93
393	HTSFU12	834610	403	73 - 420	1808	Arg-8 to Glu-15, Gln-38 to Gln-43, Thr-50 to Arg-68, Gln-95 to Gln-106.	AR055: 11, AR061: 7, AR096: 7, AR089: 6, AR060: 6, AR052: 6, AR033: 6, AR053: 5, AR039: 1, AR104: 0 L0761: 7, L0747: 6, S0045: 4, L0766: 4, L0755: 4, L0770: 3, S0126: 3, L0731: 3, H0657: 2, H0730: 2, L0623: 2, H0546: 2, H0150: 2, H0012: 2, H0620: 2, H0529: 2, H0739: 1, S6024: 1, T0049: 1, H0381: 1, H0663: 1, H0306: 1,				65-99

394	HELM15	834810	404	978 - 394	1809	Pro-12 to Thr-38, Tyr-86 to Trp-92, Glu-142 to Trp-150.	H0549: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, H0599: 1, T0048: 1, H0597: 1, H0544: 1, H0545: 1, H0567: 1, H0571: 1, H0083: 1, H0428: 1, T0006: 1, L0142: 1, H0617: 1, L0055: 1, S0036: 1, H0087: 1, H0412: 1, T0041: 1, S0438: 1, L0763: 1, L5565: 1, L0372: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0783: 1, L0383: 1, S0296: 1, S0380: 1, H0710: 1, H0528: 1, S0406: 1, H0576: 1, H0631: 1, L0611: 1, S0027: 1, L0757: 1, L0758: 1, L0588: 1, H0423: 1 and H0506: 1.	H0549: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, H0599: 1, T0048: 1, H0597: 1, H0544: 1, H0545: 1, H0567: 1, H0571: 1, H0083: 1, H0428: 1, T0006: 1, L0142: 1, H0617: 1, L0055: 1, S0036: 1, H0087: 1, H0412: 1, T0041: 1, S0438: 1, L0763: 1, L5565: 1, L0372: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0783: 1, L0383: 1, S0296: 1, S0380: 1, H0710: 1, H0528: 1, S0406: 1, H0576: 1, H0631: 1, L0611: 1, S0027: 1, L0757: 1, L0758: 1, L0588: 1, H0423: 1 and H0506: 1.				54-78
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395	HTEJPI3	834931	405	665 - 1147	1810	Pro-17 to Pro-23, Arg-40 to Tyr-50, Arg-143 to Ala-154.	1, S0045: 1, H0587: 1, H0486: 1, H0599: 1, H0581: 1, H0530: 1, H0544: 1, H0163: 1, H0090: 1, H0100: 1, L0770: 1, L5566: 1, L0364: 1, L0649: 1, L0803: 1, L0659: 1, L0809: 1, L0789: 1, L0352: 1, S0380: 1, L0749: 1, L0750: 1, L0758: 1, L0581: 1 and H0667: 1.				65-102, 85-102
396	HDQHB46	835271	406	174 - 698	1811	Asp-9 to Asn-21, Pro-24 to Ser-38, Thr-54 to Tyr-61, Asp-126 to Asn-131, Asp-133 to Asp-138, Cys-167 to Ile-175.	AR053: 23, AR052: 20, AR096: 18, AR055: 16, AR060: 13, AR089: 13, AR104: 9, AR061: 9, AR033: 9, AR039: 7 H0616: 3, L0758: 3, L0717: 1, H0038: 1 and L0779: 1. AR096: 5, AR052: 3, AR089: 3, AR033: 2, AR053: 2, AR060: 2, AR039: 2, AR055: 1, AR061: 1, AR104: 0 H0641: 10, H0521: 10, H0575: 6, L0599: 6, H0638: 4, H0435: 3, L0758: 3, L0600: 3, H0616: 2, H0413: 2, H0423: 2, T0049: 1,	3			136-162

397	HCETE50	835488	407	158 - 595	1812				H0657: 1, H0580: 1, H0486: 1, H0042: 1, H0123: 1, H0375: 1, H0031: 1, H0038: 1, H0412: 1, H0652: 1, L0648: 1, L0794: 1, L0776: 1, L0787: 1, H0518: 1, H0522: 1 and H0707: 1.				101-134, 22-38, 124-140, 49-65
398	HDTBO48	835717	408	123 - 896	1813				AR033: 8, AR055: 2, AR039: 2, AR061: 2, AR089: 2, AR060: 1, AR096: 1, AR104: 1, AR052: 0, AR053: 0 L0439: 25, L0438: 5, L0742: 5, S0010: 4, S0412: 2, S0222: 1, H0592: 1, H0013: 1, H0156: 1, H0194: 1, H0178: 1, H0024: 1, S0051: 1, T0010: 1, L0455: 1, S0036: 1, L0371: 1, L0794: 1, L0809: 1, H0547: 1, H0539: 1 and L0786: 1.				180-214
399	HODGL01	835896	409	813 - 172	1814	Trp-6 to Ala-14, Ala-33 to Gly-43,			AR053: 67, AR052: 49, AR096: 48, AR089: 35, AR039: 25, AR060: 22, AR104: 20, AR033: 16, AR055: 8, AR061: 6 H0486: 2 AR055: 5, AR053: 4, AR060: 3, AR061: 3,				154-190, 123-141

<p>AR033: 3, AR052: 3,  AR089: 3, AR039: 3,  AR096: 2, AR104: 1  H0250: 9, H0271: 7,  L0743: 6, L0751: 6, L0745:  6, S0360: 5, H0265: 4,  L0666: 4, H0521: 4, H0556:  3, H0716: 3, S0280: 3,  L0662: 3, H0713: 2, H0662:  2, S0278: 2, H0486: 2,  H0615: 2, L0805: 2, L0655:  2, L0664: 2, H0672: 2,  S0378: 2, L0746: 2, S0434:  2, L0581: 2, S0196: 2,  H0650: 1, H0656: 1, S0116:  1, S0420: 1, S0444: 1,  H0580: 1, H0619: 1, S6022:  1, H0635: 1, H0427: 1,  L0021: 1, H0253: 1, S0474:  1, H0457: 1, H0355: 1,  S0334: 1, H0286: 1, S0312:  1, H0252: 1, H0032: 1,  H0634: 1, H0063: 1, H0551:  1, S0440: 1, H0649: 1,  L0771: 1, L0649: 1, L0803:  1, L0774: 1, L0806: 1,  L0636: 1, L0791: 1, L0793:  1, L0665: 1, H0690: 1,  H0670: 1, H0660: 1, H0648:  1 H0518: 1 S0174: 1</p>	<p>Trp-68 to His-73.</p>
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400	HE8TO35	835965	410	1710 - 2150	1815	Pro-45 to Gln-55.	H0555: 1, H0436: 1, S0032: 1, L0744: 1, H0343: 1, L0584: 1, S0242: 1, H0422: 1 and H0506: 1. AR061: 3, AR096: 2, AR055: 2, AR060: 2, AR104: 2, AR033: 1, AR053: 1, AR089: 1, AR052: 1, AR039: 0 H0046: 2, H0009: 2, H0090: 2, H0494: 2, L0438: 2, H0547: 2, H0521: 2, L0439: 2, L0777: 2, H0543: 2, H0556: 1, S0342: 1, S0045: 1, H0619: 1, H0632: 1, H0013: 1, H0156: 1, L0021: 1, H0575: 1, H0318: 1, S0003: 1, L0483: 1, H0628: 1, H0623: 1, H0561: 1, L0761: 1, L0803: 1, L0804: 1, L0659: 1, L0382: 1, H0144: 1, H0539: 1, S0152: 1, H0478: 1, H0631: 1, L0741: 1, L0740: 1 and L0591: 1.				H0555: 1, H0436: 1, S0032: 1, L0744: 1, H0343: 1, L0584: 1, S0242: 1, H0422: 1 and H0506: 1.			117-133, 90-106
401	HOHCB06	836191	411	17 - 619	1816		AR096: 1, AR039: 1, AR052: 1, AR104: 1, AR061: 1, AR089: 1, AR055: 1, AR053: 0							143-176

									AR060: 0, AR033: 0 L0744: 8, L0777: 8, L0749: 6, S0126: 4, S0358: 3, H0622: 3, L0805: 3, H0519: 3, H0624: 2, S0476: 2, L0717: 2, H0486: 2, H0012: 2, S0250: 2, L0662: 2, L0803: 2, L0659: 2, L0519: 2, L0663: 2, L0438: 2, H0520: 2, H0435: 2, L0751: 2, L0747: 2, L0759: 2, H0685: 1, S0212: 1, S0442: 1, H0729: 1, H0550: 1, H0013: 1, S0280: 1, H0599: 1, H0575: 1, H0123: 1, L0471: 1, H0057: 1, H0266: 1, H0587: 1, H0292: 1, H0688: 1, H0030: 1, H0644: 1, T0041: 1, L0770: 1, L0771: 1, L0768: 1, L0774: 1, L0655: 1, L0661: 1, L0665: 1, H0724: 1, H0547: 1, S0330: 1, H0539: 1, H0518: 1, S0152: 1, H0555: 1, S0390: 1, L0748: 1, L0439: 1, L0740: 1, L0779: 1, L0755: 1, L0731: 1, H0595: 1, L0591: 1, L0593: 1, S0192: 1 and S0196: 1
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402	H2CBN10	836762	412	173 - 1075	1817	Arg-195 to Phe-203, Ser-258 to Thr-264.	AR033: 380, AR061: 335, AR060: 243, AR104: 243, AR055: 238, AR096: 231, AR089: 178, AR053: 132, AR052: 131, AR039: 122 L0750: 2, H0580: 1, S0010: 1, T0110: 1, H0457: 1, H0436: 1, L0779: 1, L0752: 1 and H0543: 1.			116-138, 202-226, 49-67, 148-166, 270-286, 174-190, 99-115, 22-38, 1- 17, 78-94
403	HBJNB08	836997	413	130 - 1266	1818	Tyr-20 to Asn-26, Ala-37 to Ser-46, Thr-99 to Glu-105, Cys-163 to Arg-171, Tyr-204 to Leu-215, His-279 to Phe-285, Ala-334 to Ala-349, Ala-363 to Gly-379.	AR033: 2, AR053: 2, AR089: 2, AR060: 2, AR052: 1, AR096: 1, AR039: 1, AR061: 1, AR055: 0 L0750: 8, H0318: 6, L0764: 6, S0002: 5, L0771: 5, L0665: 5, L0438: 5, L0747: 5, S0442: 4, H0046: 4, L0655: 4, L0809: 4, L0666: 4, L0740: 4, S0356: 3, S0444: 3, H0486: 3, L0646: 3, L0794: 3, L0766: 3, S0360: 2, H0036: 2, S0426: 2, L0372: 2, L0773: 2, L0776: 2, L0659: 2, L0663: 2, H0519: 2, H0555: 2, L0777: 2, S0436: 2, L0596: 2, L0591: 2, L0362: 2, H0542: 2, H0506: 2, S0212: 1, S0045: 1, H0575:			301-328, 288-304



404	HHAMF80	837474	414	110 - 427	1819	Ser-3 to Gly-12, Ala-16 to Arg-28, Lys-62 to Leu-68.	1, H0590: 1, S0010: 1, S0346: 1, H0705: 1, H0581: 1, H0052: 1, T0110: 1, H0597: 1, H0239: 1, H0622: 1, H0644: 1, H0674: 1, H0163: 1, H0591: 1, H0038: 1, H0087: 1, H0100: 1, S0448: 1, S0440: 1, S0142: 1, H0529: 1, L0763: 1, L0804: 1, L0775: 1, L0651: 1, L0806: 1, L0805: 1, L0783: 1, L0790: 1, L0791: 1, L0664: 1, H0701: 1, H0593: 1, H0670: 1, H0539: 1, S0406: 1, S3012: 1, S0028: 1, L0439: 1, L0751: 1, L0755: 1, H0445: 1, S0434: 1, H0423: 1 and S0424: 1.					41-57, 77- 98
							AR096: 1, AR089: 1, AR104: 1, AR033: 1, AR061: 1, AR060: 0, AR053: 0, AR052: 0, AR055: 0, AR039: 0 H0599: 2, L0663: 2, S0136: 2, L0740: 2, S0418: 1, H0550: 1, H0592: 1, H0587: 1, H0373: 1, H0090: 1, S0422: 1, L0763: 1, S0052: 1, S0013: 1, H0696:					

405	HDPUR66	837522	415	199 - 771	1820	Gly-10 to Phe-18, Gly-28 to Asp-40.	1, L0749: 1, L0779: 1 and L0485: 1. AR060: 12, AR096: 7, AR039: 5, AR053: 4, AR052: 3, AR033: 3, AR055: 3, AR089: 3, AR104: 3, AR061: 2 S6022: 1, H0486: 1, H0560: 1, L0565: 1 and H0521: 1.				124-143
406	HBWBX66	837523	416	183 - 656	1821	Gln-10 to Arg-16, Leu-31 to Thr-38, Val-49 to Arg-55, Cys-77 to Ser-82, Ser-102 to Ala-107.	AR089: 1, AR053: 1, AR033: 1, AR104: 1, AR061: 0, AR039: 0, AR055: 0, AR096: 0, AR060: 0, AR052: 0 S0386: 2, S0420: 1, H0013: 1, H0457: 1, S0250: 1, S0390: 1, L0596: 1 and H0422: 1.				58-74
407	HMHBR95	837526	417	22 - 531	1822	Leu-14 to Asp-19, Gly-47 to Trp-55, Ser-102 to Ser-107, Asp-136 to Cys-143.	AR104: 6, AR061: 2, AR096: 2, AR060: 1, AR053: 1, AR089: 1, AR033: 0, AR055: 0, AR052: 0 L0745: 12, L0771: 7, L0766: 3, L0746: 3, L0777: 3, L0764: 2, L0775: 2, L0779: 2, L0757: 2, L0404: 1, S0360: 1, H0351: 1,				26-42, 55- 71, 145- 161, 110- 126

408	HEGAU68	837527	418	5 - 388	1823	Gly-24 to Gly-29, Thr-36 to Asp-41, Ala-47 to Pro-52.	H0441: 1, H0069: 1, H0052: 1, H0288: 1, H0286: 1, S0364: 1, H0634: 1, H0264: 1, H0494: 1, H0646: 1, L0772: 1, L0372: 1, L0800: 1, L0803: 1, L0774: 1, L0806: 1, L0788: 1 and H0672: 1. AR089: 11, AR060: 8, AR096: 8, AR033: 6, AR052: 4, AR053: 4, AR039: 4, AR104: 4, AR055: 3, AR061: 3 L0744: 9, L0731: 8, L0439: 7, H0144: 5, L0749: 5, L0748: 4, L0745: 4, L0758: 4, S0040: 3, H0013: 3, H0038: 3, S0344: 3, L0769: 3, L0773: 3, L0755: 3, H0306: 2, S0356: 2, S0358: 2, H0550: 2, H0392: 2, S0280: 2, H0620: 2, T0003: 2, H0598: 2, S0036: 2, H0623: 2, S0002: 2, L0662: 2, L0768: 2, L0561: 2, L0775: 2, L0776: 2, L0527: 2, L0783: 2, L0438: 2, S0126: 2, H0539: 2, S0152: 2, H0521: 2, S3014: 2, L0754: 2, L0747: 2,				82.99
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	L0780: 2, L0752: 2, L0757: 2, L0591: 2, L0608: 2, L0362: 2, L0361: 2, L0601: 2, L0603: 2, H0170: 1, H0265: 1, H0556: 1, T0002: 1, S0114: 1, L0427: 1, S0116: 1, S0282: 1, H0402: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0045: 1, S0132: 1, S0476: 1, S0278: 1, H0549: 1, S0222: 1, S6014: 1, H0441: 1, H0438: 1, H0497: 1, H0333: 1, H0069: 1, L0021: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0085: 1, H0327: 1, H0150: 1, H0178: 1, H0050: 1, H0024: 1, H0051: 1, H0375: 1, H0594: 1, H0188: 1, H0687: 1, S0022: 1, H0252: 1, H0615: 1, H0428: 1, H0622: 1, H0031: 1, H0644: 1, H0673: 1, H0674: 1, H0135: 1, H0163: 1, H0634: 1, H0087: 1, H0412: 1, H0056: 1, S0038: 1, H0100: 1, T0041: 1, H0429: 1, S0450: 1, S0142: 1, S0426: 1, H0529: 1, I 0763: 1		
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409	HMEAD61	837597	419	107 - 1093	1824	Phe-80 to Gly-85, Glu-148 to Trp-157.	L0770: 1, L0796: 1, L0761: 1, L0667: 1, L0646: 1, L0764: 1, L0771: 1, L0766: 1, L0375: 1, L0655: 1, L0657: 1, L0659: 1, L0517: 1, L0383: 1, L0382: 1, L0543: 1, L0666: 1, L0664: 1, H0703: 1, S0374: 1, H0520: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, S0328: 1, S0404: 1, S0406: 1, S0027: 1, L0740: 1, L0746: 1, L0750: 1, L0759: 1, H0445: 1, L0480: 1, L0584: 1, S0242: 1, S0276: 1, H0543: 1, H0423: 1, H0422: 1, S0446: 1, L0600: 1 and H0352: 1.	L0770: 1, L0796: 1, L0761: 1, L0667: 1, L0646: 1, L0764: 1, L0771: 1, L0766: 1, L0375: 1, L0655: 1, L0657: 1, L0659: 1, L0517: 1, L0383: 1, L0382: 1, L0543: 1, L0666: 1, L0664: 1, H0703: 1, S0374: 1, H0520: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, S0328: 1, S0404: 1, S0406: 1, S0027: 1, L0740: 1, L0746: 1, L0750: 1, L0759: 1, H0445: 1, L0480: 1, L0584: 1, S0242: 1, S0276: 1, H0543: 1, H0423: 1, H0422: 1, S0446: 1, L0600: 1 and H0352: 1.					234-252, 18-34
							AR053: 15, AR096: 15, AR089: 12, AR052: 12, AR104: 9, AR060: 8, AR033: 7, AR039: 6, AR055: 6, AR061: 4 L0766: 5, L0439: 4, L0754: 4, L0758: 4, H0656: 3, H0031: 3, H0038: 3, H0657: 2, S0029: 2, S0222: 2, H0455: 2, H0618: 2, H0081: 2, H0617: 2, T0042: 2, S0210: 2, H0529: 2,						

410	HDTDF94	837726	420	61 - 477	1825	Pro-20 to Ser-28, Gly-59 to Leu-69, Tyr-101 to Ile-106.	L0769: 2, L0662: 2, L0665: 2, L0747: 2, L0777: 2, H0445: 2, H0543: 2, H0170: 1, H0394: 1, H0556: 1, T0002: 1, H0662: 1, S0046: 1, L0717: 1, H0392: 1, H0497: 1, H0253: 1, H0318: 1, H0544: 1, H0178: 1, L0157: 1, L0471: 1, H0051: 1, T0010: 1, H0408: 1, H0266: 1, H0188: 1, H0290: 1, S0022: 1, H0135: 1, H0090: 1, H0040: 1, H0634: 1, H0494: 1, S0448: 1, H0641: 1, S0142: 1, S0344: 1, L0770: 1, L0637: 1, L0771: 1, L0521: 1, L0768: 1, L0803: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0629: 1, L0659: 1, L0791: 1, L0663: 1, L0664: 1, H0519: 1, H0682: 1, H0539: 1, H0521: 1, H0522: 1, H0134: 1, H0214: 1, L0779: 1, H0667: 1, H0542: 1, H0423: 1 and H0422: 1.	AR096: 5, AR061: 4, AR039: 3, AR033: 3, AR053: 3, AR060: 3, AR055: 3, AR052: 3.				74-97, 29- 56
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411	HKAJL51	837785	421	22 - 351	1826	Glu-2 to Ala-19, Leu-23 to Gln-40.	AR089: 2, AR104: 2 L0748: 5, H0024: 2, L0439: 2, H0662: 1, S0420: 1, S0132: 1, H0431: 1, H0586: 1, H0486: 1, H0013: 1, H0575: 1, L0518: 1, H0539: 1, H0521: 1, S0242: 1 and S0194: 1. AR096: 2, AR055: 1, AR089: 1, AR033: 1, AR060: 1, AR052: 1, AR061: 1, AR039: 0, AR053: 0 L0754: 118, L0748: 42, H0553: 29, L0757: 15, L0755: 13, L0603: 11, H0030: 10, H0031: 10, H0644: 6, L0740: 6, L0142: 5, H0100: 5, L0731: 4, L0005: 3, H0551: 2, H0494: 2, L0439: 2, L0747: 2, L0749: 2, L0780: 2, S0242: 2, H0657: 1, S0418: 1, H0053: 1, H0036: 1, H0546: 1, L0471: 1, H0051: 1, H0328: 1, H0615: 1, L0143: 1, H0111: 1, H0413: 1, L0666: 1, L0663: 1, H0518: 1, S0332: 1, S0454: 1, H0704: 1, H0555: 1, L0756:					71-87, 46- 62
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412	HODGZ47	837858	422	419 - 1024	1827	Ser-88 to Leu-95, Ser-99 to Ser-106, Pro-134 to His-140.	1, L0601: 1, S0011: 1 and H0136: 1. AR096: 3, AR061: 2, AR033: 2, AR089: 1, AR060: 1, AR052: 1, AR053: 0, AR039: 0, AR055: 0, AR104: 0 H0615: 2, H0040: 1, H0272: 1 and H0436: 1.				163-193, 21-56, 9- 26, 59-77, 183-199
413	HTJMQ74	838145	423	172 - 1044	1828	Met-1 to Gly-7, Cys-47 to Arg-52, Asp-97 to His-102, Asn-280 to Met-291.	AR039: 4, AR096: 3, AR052: 3, AR053: 3, AR089: 3, AR033: 2, AR055: 2, AR061: 2, AR104: 2, AR060: 1 H0586: 6, L0777: 5, H0661: 3, S0476: 2, H0592: 2, H0587: 2, H0494: 2, S0001: 1, H0486: 1, H0013: 1, S0280: 1, H0251: 1, L0738: 1, S0214: 1, H0488: 1, L0369: 1, L0770: 1, L0637: 1, L0772: 1, L0659: 1, L0647: 1, L0666: 1, H0724: 1, H0519: 1, H0682: 1, S0027: 1, S0028: 1, S0206: 1, L0747: 1, L0755: 1 and H0595: 1.				161-190, 232-254, 111-138, 200-216, 66-82, 137-153, 26-42
414	HOHCE56	838619	424	544 - 1812	1829	Ser-4 to Asn-10, Pro-29 to Cys-38,	AR033: 1, AR096: 1, AR104: 1, AR089: 0,				75-92



Pro-64 to Thr-70, Glu-95 to Tyr-100, Lys-106 to Arg-115, Thr-139 to Ser-146, Arg-160 to Glu-166, Gly-205 to Gly-218, Ser-252 to Leu-258, Gly-278 to Thr-288, Gln-340 to Phe-350, Ser-378 to Gly-391, Gly-398 to Arg-423.	AR061: 0, AR055: 0, AR039: 0, AR060: 0, AR053: 0 L0743: 9, H0620: 8, L0754: 8, L0731: 8, L0742: 7, S0126: 6, H0486: 5, H0012: 4, S0250: 4, L0747: 4, H0051: 3, H0039: 3, L0770: 3, L0654: 3, L0780: 3, S0040: 2, H0294: 2, L0149: 2, H0586: 2, H0253: 2, H0052: 2, H0545: 2, H0050: 2, H0024: 2, H0622: 2, H0124: 2, S0036: 2, H0135: 2, S0112: 2, H0494: 2, L0662: 2, L0806: 2, L0659: 2, H0689: 2, H0435: 2, L0741: 2, L0740: 2, L0751: 2, L0779: 2, L0777: 2, L0752: 2, L0755: 2, L0366: 2, S0192: 2, H0624: 1, S6024: 1, H0295: 1, H0484: 1, S0420: 1, L0619: 1, S0356: 1, H0208: 1, S0046: 1, S0300: 1, H0351: 1, H0549: 1, H0455: 1, H0333: 1, H0575: 1, H0544: 1, H0123: 1, H0081: 1, S0050: 1, S0051: 1, H0594: 1, S0022: 1, H0551: 1,					
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415	HLJBJ45	838808	425	309 - 644	1830	Ser-56 to Asn-61.	<p>H0059: 1, H0100: 1, S0002: 1, L0763: 1, L5575: 1, L0772: 1, L0646: 1, L0771: 1, L0803: 1, L0636: 1, L0647: 1, L0787: 1, L0793: 1, L0666: 1, L0665: 1, H0726: 1, H0547: 1, H0593: 1, S0044: 1, S0390: 1, S3014: 1, S0027: 1, S0028: 1, S0032: 1, L0750: 1, L0756: 1, L0757: 1, L0758: 1, L0592: 1 and L0603: 1.</p> <p>AR089: 20, AR052: 14, AR033: 14, AR060: 11, AR096: 9, AR053: 9, AR055: 7, AR104: 7, AR061: 5, AR039: 5, S0358: 5, H0521: 4, S0418: 3, S0126: 3, H0658: 3, L0748: 3, L0740: 2, L0750: 2, S0040: 1, H0294: 1, H0228: 1, H0393: 1, H0357: 1, H0586: 1, H0490: 1, H0486: 1, H0013: 1, H0427: 1, H0098: 1, H0575: 1, S0010: 1, T0048: 1, H0581: 1, S0049: 1, L0471: 1, H0375: 1, H0266: 1, H0328: 1, H0688: 1, H0428: 1, H0039: 1, H0169: 1,</p>	2p22-p21	<p>120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134</p>	88-107, 34-50, 61- 77, 13-29
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416	HSHCL04	838860	426	661 - 1014	1831	Arg-31 to Asn-36.	<p>H0135: 1, H0372: 1, H0494: 1, H0560: 1, H0633: 1, S0144: 1, H0529: 1, L0654: 1, H0520: 1, H0435: 1, H0660: 1, S0330: 1, L0602: 1, L0439: 1, L0731: 1, H0668: 1, H0665: 1 and H0542: 1.</p> <p>AR096: 8, AR089: 6, AR060: 5, AR052: 5, AR053: 5, AR033: 4, AR055: 4, AR039: 3, AR061: 3, AR104: 2, S0053: 2, H0171: 1 and S0037: 1.</p>				1-24, 61-88, 53-70, 35-51	
417	HABR52	839006	427	349 - 1170	1832	Met-1 to Gly-7, Ala-45 to Gly-53, Leu-76 to Phe-84, Lys-135 to Thr-141.	<p>AR053: 1, AR104: 1, AR033: 1, AR060: 1, AR089: 0, AR096: 0, AR061: 0, AR052: 0, AR039: 0, AR055: 0, L0766: 7, L0758: 3, L0759: 3, H0038: 2, H0560: 2, L0804: 2, L0775: 2, L0751: 2, L0779: 2, L0595: 2, H0656: 1, S0212: 1, H0664: 1, S0354: 1, L0011: 1, H0156: 1, H0599: 1, S0346: 1, H0581: 1, H0673: 1, H0591: 1, H0413: 1,</p>				140-158, 22-38, 237-254, 105-121, 210-226	

418	HSLEK65	839237	428	53 - 730	1833	Thr-184 to Phe-190, Thr-219 to Ser-226.	H0623: 1, S0038: 1, L0370: 1, H0561: 1, S0422: 1, L0770: 1, L0772: 1, L0642: 1, L0803: 1, L0774: 1, L0656: 1, L0663: 1, S0428: 1, H0519: 1, S0330: 1, H0539: 1, H0521: 1, H0555: 1, H0576: 1, L0588: 1, L0605: 1 and H0667: 1.				1-25, 35- 56, 188- 210, 85- 107, 155- 171, 61-77
							AR033: 2, AR104: 1, AR055: 1, AR060: 1, AR052: 1, AR096: 1, AR089: 1, AR061: 1, AR053: 1, AR039: 0 S0278: 13, S0144: 12, S0142: 9, H0521: 8, S0222: 6, S0282: 5, H0638: 5, S0344: 5, S0028: 5, L0731: 5, S0001: 4, S0045: 3, S0049: 3, L0755: 3, S0031: 3, H0351: 2, S0051: 2, H0100: 2, S0428: 2, L0756: 2, H0624: 1, H0716: 1, H0455: 1, H0333: 1, H0575: 1, H0052: 1, H0041: 1, H0009: 1, N0006: 1, T0010: 1, H0375: 1, S6028: 1, H0416: 1, H0617: 1, H0606: 1, H0068: 1, S0036: 1, S0112: 1, S0438: 1, S0440:				

419	HWGAF42	839272	429	315 - 650	1834	Met-1 to Thr-7, Leu-24 to Glu-31, Gln-34 to Gly-44, Gly-82 to Ser-87, Asp-94 to Leu-99, Ala-102 to Glu-107.	1, S0002: 1, L0763: 1, L0769: 1, L0637: 1, L0806: 1, L0658: 1, L0666: 1, S0126: 1, L0355: 1, S0332: 1, H0522: 1, S0044: 1, S0390: 1, S0436: 1 and L0599: 1. AR033: 29, AR052: 29, AR039: 28, AR053: 26, AR104: 25, AR089: 23, AR096: 19, AR055: 18, AR060: 14, AR061: 12 L0805: 51, L0776: 33, L0439: 31, L0789: 8, L0741: 8, L0438: 7, L0769: 6, L0777: 6, H0052: 5, H0617: 5, L0748: 4, L0750: 4, L0779: 4, L0753: 4, H0424: 3, S0036: 3, L0775: 3, L0809: 3, S0378: 3, S0040: 2, L0103: 2, H0046: 2, H0284: 2, T0006: 2, H0213: 2, S0038: 2, L0351: 2, L0764: 2, L0768: 2, L0794: 2, L0659: 2, H0670: 2, L0602: 2, L0747: 2, L0731: 2, L0758: 2, S0436: 2, L0592: 2, S0342: 1, S0282: 1, S0030: 1, H0484: 1, S0007: 1, S0278: 1,					41-68
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420	HOU6A63	839547	430	375 - 1598	1835	Ser-10 to Asp-28, Ser-51 to Arg-85, Val-92 to Asn-97, Tyr-123 to Gly-133, Glu-138 to Lys-145, Thr-265 to Gly-276, Thr-303 to Gln-308, Leu-314 to Thr-321, Leu-331 to Thr-339, Lys-347 to Leu-354.	AR033: 5, AR055: 5, AR089: 4, AR052: 4, AR060: 4, AR096: 4, AR053: 4, AR061: 4, AR104: 2, AR039: 0 H0553: 3, H0494: 3, L0748: 3, H0457: 2, H0031: 2, H0521: 2, S0040: 1, S0218: 1, H0662: 1, S0418: 1, S0354: 1, S0045: 1, H0411: 1, H0549: 1, H0586: 1, H0497: 1, H0331: 1, H0486: 1, H0013: 1, H0036: 1, H0050: 1, S0036: 1, L0370: 1, S0002: 1, L0766:	H0261: 1, S0222: 1, H0441: 1, H0156: 1, T0082: 1, H0194: 1, H0231: 1, T0010: 1, S6028: 1, H0271: 1, L0483: 1, H0418: 1, H0181: 1, H0412: 1, S0112: 1, S0370: 1, S0144: 1, S0002: 1, L0520: 1, L0762: 1, L0763: 1, L0638: 1, L0772: 1, L0653: 1, L0636: 1, L0367: 1, L0788: 1, L0791: 1, L0665: 1, L0352: 1, H0672: 1, H0539: 1, S0032: 1, L0742: 1, L0740: 1 and H0667: 1.						177-193
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421	HLWAW3 6	839561	431	213 - 1133	1836	Ala-4 to Asn-18, Leu-69 to Gln-75, Asp-114 to Pro-119, Ala-153 to Arg-162, Glu-166 to Glu-202, Ala-209 to Ser-244.	1, L0375: 1, H0144: 1, H0659: 1, S0027: 1, L0745: 1, L0599: 1, L0604: 1, H0543: 1 and S0424: 1. AR096: 3, AR033: 2, AR061: 2, AR089: 2, AR053: 2, AR052: 2, AR039: 1, AR055: 1, AR060: 1, AR104: 1 L0748: 15, L0439: 10, H0046: 9, L0758: 8, L0596: 7, L0589: 7, H0013: 6, L0769: 6, L0666: 6, H0556: 5, H0341: 5, S0420: 5, L0766: 5, L0659: 5, H0521: 5, H0575: 4, H0083: 4, H0266: 4, H0553: 4, H0032: 4, H0551: 4, L0771: 4, L0775: 4, L0665: 4, H0518: 4, S0152: 4, L0740: 4, L0751: 4, H0170: 3, H0265: 3, H0657: 3, H0656: 3, S0418: 3, S0358: 3, S0476: 3, H0687: 3, H0628: 3, H0617: 3, H0090: 3, S0150: 3, L0646: 3, L0768: 3, L0776: 3, L0809: 3, L0664: 3, H0144: 3, H0547: 3, H0519: 3, H0711: 3, L0747: 3, L0752: 3, L0759: 3,	15q26.1	166800, 210900	241-268
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	H0445: 3, L0592: 3, H0677: 3, H0624: 2, S0134: 2, S0116: 2, H0483: 2, S0360: 2, S0045: 2, S0046: 2, H0619: 2, S0222: 2, T0039: 2, H0069: 2, H0427: 2, H0599: 2, H0318: 2, H0581: 2, H0052: 2, H0596: 2, H0150: 2, H0012: 2, H0014: 2, H0169: 2, H0124: 2, H0163: 2, H0264: 2, H0412: 2, H0623: 2, H0561: 2, S0382: 2, S0440: 2, H0652: 2, S0426: 2, H0529: 2, L0640: 2, L0764: 2, L0773: 2, L0662: 2, L0774: 2, L0375: 2, L0655: 2, L0526: 2, L0438: 2, H0659: 2, H0658: 2, H0710: 2, S0404: 2, S3014: 2, S0027: 2, L0754: 2, L0750: 2, L0777: 2, L0780: 2, L0731: 2, L0588: 2, L0485: 2, H0422: 2, S0424: 2, H0506: 2, H0008: 2, H0352: 2, H0220: 1, H0686: 1, H0713: 1, H0717: 1, H0295: 1, S0430: 1, H0583: 1, H0650: 1, S0110: 1, S0001: 1, H0484: 1, H0255: 1, H0661: 1.					
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	H0486: 102, S0360: 76, L0598: 39, H0251: 35, L0659: 32, H0144: 32, H0013: 31, H0624: 28, H0024: 26, H0050: 25, L0471: 25, L0662: 22, L0748: 22, H0619: 20, H0123: 20, S0003: 18, H0031: 15, H0170: 14, H0124: 14, H0328: 13, L0750: 13, H0644: 12, S0126: 12, S0028: 11, L0757: 11, S0196: 11, H0587: 10, S0214: 10, L0589: 10, S0040: 9, H0622: 9, L0731: 9, H0171: 8, S0356: 8, L0717: 8, H0586: 8, H0620: 8, H0252: 8, H0551: 8, H0352: 8, H0661: 7, H0081: 7, L0747: 7, L0755: 7, S0358: 6, H0598: 6, L0646: 6, L0771: 6, S3014: 6, H0343: 6, H0595: 6, S0212: 5, H0329: 5, H0208: 5, H0574: 5, H0316: 5, H0100: 5, L0666: 5, L0565: 5, H0658: 5, S0390: 5, S0027: 5, S0011: 5, S0192: 5, S0194: 5, S0376: 4, H0575: 4, H0039:
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424	HTEBP06	839885	434	156 - 1244	1839	Met-1 to Ser-12, Asn-23 to Thr-33, Asn-35 to Gly-42, Pro-46 to Asp-51, Arg-86 to Asp-92, Ile-98 to Gly-108, Tyr-111 to Phe-128, Asn-140 to Cys-146, Gly-151 to Lys-182, Gly-190 to Ala-196, Leu-200 to Gln-212, Ile-217 to Lys-224,	H0428: 1, T0023: 1, L0143: 1, H0111: 1, H0163: 1, H0591: 1, H0038: 1, H0616: 1, H0058: 1, T0069: 1, H0080: 1, L0351: 1, L0564: 1, H0646: 1, H0654: 1, S0208: 1, L0763: 1, L0373: 1, L0764: 1, L0773: 1, L0648: 1, L0521: 1, L0767: 1, L0522: 1, L0775: 1, L0806: 1, L0607: 1, L0512: 1, L0634: 1, L0526: 1, L0783: 1, L0367: 1, H0547: 1, H0682: 1, H0659: 1, H0660: 1, H0666: 1, S0118: 1, S0037: 1, H0445: 1, L0590: 1, L0603: 1, H0665: 1, H0667: 1 and S0446: 1.				259-276
						AR104: 874, AR060: 684, AR055: 616, AR033: 568, AR061: 555, AR039: 520, AR089: 289, AR096: 146, AR052: 115, AR053: 114 H0038: 8, H0616: 6, L0758: 4, L0794: 3, H0545: 2, H0040: 1, L0768: 1 and L0790: 1.					

425	HSKYK23	839888	435	204 - 869	1840	Val-316 to Asn-324. Asn-19 to Pro-28, Phe-45 to Tyr-52.	AR039: 19, AR052: 17, AR055: 17, AR053: 16, AR089: 15, AR096: 13, AR060: 13, AR104: 12, AR033: 10, AR061: 8 L0794: 7, S0152: 6, L0750: 6, L0777: 6, L0803: 4, L0748: 4, L0731: 4, L0757: 4, L0759: 4, L0804: 3, L0659: 3, L0752: 3, S0358: 2, S0444: 2, S0360: 2, S0045: 2, L0766: 2, L0751: 2, L0756: 2, S0031: 2, L0588: 2, H0663: 1, S0442: 1, H0580: 1, S0046: 1, H0393: 1, H0486: 1, H0575: 1, H0318: 1, H0041: 1, H0123: 1, H0375: 1, H0687: 1, S0003: 1, H0031: 1, S0144: 1, H0529: 1, L0763: 1, L0662: 1, L0774: 1, L0775: 1, L0806: 1, L0518: 1, L0789: 1, L0663: 1, H0672: 1, S0380: 1, H0521: 1, H0694: 1, S0406: 1, S0206: 1, L0740: 1, L0779: 1, L0755: 1, S0242: 1 and S0424: 1.				132-148
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426	HBUAD85	839958	436	117 - 953	1841	Trp-10 to Gly-16, Ser-19 to Asp-31, Ser-46 to Lys-53, Pro-60 to Ile-78, Ser-85 to Leu-91, Leu-146 to Lys-154, Trp-237 to Arg-246.	AR052: 14, AR053: 8, AR033: 7, AR055: 7, AR104: 7, AR060: 5, AR096: 5, AR089: 4, AR061: 4, AR039: 1 L0777: 8, L0794: 7, L0803: 4, L0748: 4, L0749: 4, L0789: 3, L0759: 3, S0360: 2, H0644: 2, S0422: 2, L0770: 2, L0800: 2, L0766: 2, L0804: 2, L0740: 2, L0750: 2, L0779: 2, L0752: 2, L0755: 2, L0731: 2, L0758: 2, L0595: 2, S0116: 1, S0442: 1, H0729: 1, H0733: 1, S0300: 1, L0021: 1, H0575: 1, H0122: 1, S0182: 1, H0569: 1, H0090: 1, H0038: 1, H0412: 1, S0440: 1, L0371: 1, L0769: 1, L0761: 1, L0764: 1, L0771: 1, L0521: 1, L0768: 1, L5574: 1, L0783: 1, L0382: 1, L0809: 1, L0790: 1, L0663: 1, H0520: 1, H0547: 1, H0659: 1, H0522: 1, H0134: 1, H0436: 1, H0626: 1, L0747: 1, L0753: 1, L0757: 1, H0444: 1, S0436: 1, S0194: 1,				154-171
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427	HCE1N85	840000	437	777 - 1880	1842	Leu-14 to Pro-22, Pro-127 to Pro-134, Ala-140 to Arg-145, Ser-189 to Gln-203, Leu-273 to Tyr-278.	S0276: 1, H0543: 1 and H0423: 1. AR089: 1, AR060: 1, AR039: 0, AR104: 0, AR055: 0, AR053: 0, AR061: 0, AR096: 0, AR033: 0				86-105
428	HROAX39	840008	438	30 - 341	1843	Leu-38 to Trp-43, Ala-72 to Thr-77.	AR039: 35, AR055: 23, AR033: 19, AR052: 18, AR053: 17, AR089: 15, AR060: 12, AR096: 12, AR104: 11, AR061: 10 H0068: 2, H0619: 1, H0632: 1, L0471: 1, H0033: 1, H0124: 1, H0316: 1, L0747: 1 and H0136: 1.				46-65
429	HHETF37	840056	439	84 - 383	1844	Ala-12 to Glu-17, Gly-29 to Arg-35, Leu-62 to Trp-68.	AR096: 5, AR052: 2, AR089: 2, AR033: 2, AR061: 2, AR060: 1, AR104: 1, AR055: 1, AR053: 0, AR039: 0 H0436: 2, S0354: 1, L0775: 1, L0658: 1, H0445: 1, H0543: 1 and H0422: 1.				67-87
430	HKAAS52	840160	440	40 - 873	1845	Met-1 to Ala-13, Cys-38 to Ile-43, Arg-65 to Leu-70, Tyr-185 to Leu-192.	AR052: 4, AR033: 3, AR053: 3, AR089: 3, AR060: 2, AR096: 2, AR055: 2, AR061: 1,				71-88



431	HISES36	840222	441	136 - 747	1846	Ser-4 to Arg-13, Pro-15 to Trp-22.	Lys-217 to Thr-226.	AR039: 0, AR104: 0 H0494: 3, H0559: 2, H0547: 2, L0740: 2, H0423: 2, H0265: 1, H0662: 1, S0348: 1, S0418: 1, H0370: 1, H0492: 1, H0318: 1, H0052: 1, H0194: 1, H0050: 1, H0006: 1, H0266: 1, L0351: 1, L0766: 1, L0655: 1, S0310: 1, H0689: 1, S0152: 1, H0522: 1, H0543: 1 and H0422: 1.				113-143, 62-81
432	HAPBL12	840579	442	215 - 1549	1847	Lys-16 to Leu-21, Glu-70 to Lys-83, Cys-98 to Ser-104, Arg-112 to Glu-118, Lys-155 to Ser-160, Asn-196 to Ser-205, Trp-234 to Ser-241,	Lys-217 to Thr-226.	AR039: 18, AR033: 12, AR104: 12, AR053: 9, AR052: 9, AR096: 9, AR055: 8, AR089: 8, AR060: 5, AR061: 5 L0741: 3, H0619: 2, T0010: 2, H0539: 2, H0717: 1, L0438: 1, H0435: 1, H0670: 1, H0521: 1, S0436: 1 and H0542: 1.				50-66, 178-194, 276-292

433	HTJMJ95	840671	443	330 - 1001	1848	Ala-303 to Ala-308, Thr-314 to Gly-321, Asn-349 to Gly-355, Pro-370 to Glu-378, His-384 to Glu-395, Gln-415 to Ile-421, Thr-438 to Leu-444.	3, L0659: 3, L0740: 3, H0265: 2, H0441: 2, S0003: 2, H0032: 2, H0616: 2, L0766: 2, H0144: 2, S0126: 2, L0439: 2, L0780: 2, L0759: 2, S0242: 2, H0542: 2, S0470: 1, S0342: 1, H0650: 1, H0341: 1, S0001: 1, S0282: 1, S0420: 1, S0007: 1, S0476: 1, H0619: 1, T0060: 1, H0013: 1, H0427: 1, H0098: 1, H0042: 1, H0581: 1, S0049: 1, H0052: 1, H0046: 1, H0024: 1, H0051: 1, S6028: 1, H0553: 1, H0644: 1, H0212: 1, H0634: 1, H0551: 1, H0647: 1, S0144: 1, S0344: 1, L0770: 1, L0769: 1, L0639: 1, L0772: 1, L0662: 1, L0794: 1, L0803: 1, L0805: 1, L0666: 1, L0663: 1, L0664: 1, S0374: 1, H0547: 1, H0648: 1, H0696: 1, L0754: 1, L0747: 1, L0752: 1, L0755: 1 and L0591: 1.				121-137
							AR039: 17, AR033: 11, AR096: 8, AR053: 8, AR052: 7, AR104: 7,				

434	HTEL:T78	840700	444	177 - 998	1849	Arg-5 to Glu-11.	AR089: 7, AR055: 6, AR060: 5, AR061: 5 L0766: 6, L0439: 6, L0749: 5, S0022: 3, H0628: 2, L0769: 2, L0774: 2, L0666: 2, S0152: 2, L0755: 2, H0170: 1, S0476: 1, H0333: 1, H0559: 1, H0270: 1, L0021: 1, H0599: 1, H0123: 1, H0014: 1, S0003: 1, H0617: 1, L0055: 1, H0068: 1, H0135: 1, H0488: 1, H0509: 1, L0763: 1, L0637: 1, L0761: 1, L0772: 1, L0662: 1, L0768: 1, L0650: 1, L0655: 1, L0382: 1, L0809: 1, L0751: 1, L0747: 1, L0750: 1, L0756: 1, L0777: 1, L0731: 1, L0758: 1 and L0759: 1.					208-229, 235-251
							AR053: 25, AR052: 24, AR055: 16, AR033: 13, AR089: 13, AR096: 12, AR060: 11, AR061: 9, AR104: 8, AR039: 5 L0748: 2, L0779: 2, L0759: 2, H0556: 1, L0534: 1, H0565: 1, H0616: 1, S0422: 1, S0126: 1, L0751: 1, L0749: 1, L0758: 1 and					

435	HHFBP51	840811	445	100 - 690	1850	Pro-75 to Lys-91.	L0592: 1. AR089: 1, AR039: 1, AR055: 0, AR096: 0, AR061: 0, AR104: 0, AR060: 0, AR053: 0 L0774: 4, S0134: 2, H0383: 2, S0344: 2, L0803: 2, S0380: 2, H0650: 1, H0656: 1, S0360: 1, S0222: 1, H0486: 1, H0013: 1, H0009: 1, H0050: 1, S6028: 1, S0214: 1, T0023: 1, H0494: 1, H0561: 1, S0142: 1, S0002: 1, L0638: 1, L0512: 1, L0791: 1, H0547: 1, S0328: 1, H0579: 1, S0013: 1, L0742: 1, L0759: 1 and L0581: 1.			164-196, 43-75, 91- 113, 138- 156
436	HHBCS13	840896	446	470 - 1249	1851	Thr-22 to Ser-36.	AR096: 10, AR089: 10, AR104: 9, AR039: 9, AR033: 6, AR053: 5, AR060: 5, AR052: 2, AR055: 2, AR061: 2			89-105
437	HAIAT72	841335	447	500 - 946	1852		AR039: 28, AR053: 17, AR096: 11, AR033: 10, AR052: 9, AR104: 9, AR089: 8, AR055: 7, AR060: 6, AR061: 4			79-95

438	HTLHK92	842395	448	123 - 476	1853	Glu-12 to Lys-31.	H0561: 1 and S0152: 1. AR039: 12, AR055: 8, AR033: 7, AR053: 7, AR089: 6, AR052: 6, AR096: 6, AR060: 5, AR061: 4, AR104: 4 L0774: 3, L0783: 3, L0777: 3, H0013: 2, H0024: 2, L0662: 2, L0768: 2, L0565: 2, L0751: 2, L0758: 2, L0603: 2, H0170: 1, S0624: 1, H0661: 1, S0360: 1, S0222: 1, H0370: 1, H0575: 1, H0618: 1, H0545: 1, S0388: 1, H0124: 1, S0440: 1, S0150: 1, S0142: 1, L0770: 1, L0769: 1, L0764: 1, L0649: 1, L0375: 1, L0634: 1, L0809: 1, L0666: 1, H0547: 1, L0743: 1, L0754: 1, L0749: 1, L0731: 1, L0757: 1, H0506: 1 and H0008: 1.			52-71, 90- 106
439	HAGBQ10	843516	449	1475 - 594	1854	Ser-9 to Ile-16, Asp-110 to Ala-119, Glu-289 to Tyr-294.	AR055: 496, AR039: 256, AR089: 232, AR060: 215, AR033: 209, AR053: 177, AR096: 155, AR052: 154, AR061: 146, AR104: 120 L0439: 5, L0779: 2,			128-147, 266-282, 29-45

440	HCRBB73	844034	450	83 - 520	1855				L0777: 2, L0759: 2, H0156: 1, S0010: 1, S0049: 1, H0052: 1, H0328: 1, L0794: 1, L0804: 1, H0144: 1, L0438: 1, L0352: 1, L0758: 1, L0589: 1 and S0412: 1, AR096: 116, AR053: 115, AR089: 113, AR033: 94, AR052: 89, AR061: 79, AR055: 68, AR060: 67, AR039: 22, AR104: 20 L0794: 4, L0778: 1, T0048: 1, H0327: 1, H0012: 1, H0083: 1, H0038: 1, H0509: 1, L0770: 1, L0769: 1, L0659: 1, L0789: 1 and H0520: 1.				64-96, 3-34, 99-120, 38-55
441	HWHHU1 1	844529	451	85 - 678	1856	Pro-55 to Lys-67, Lys-134 to Glu-144, Pro-166 to Asn-174, Pro-192 to Trp-197.			AR089: 5, AR052: 4, AR053: 4, AR096: 3, AR061: 3, AR060: 3, AR055: 3, AR033: 3, AR104: 1, AR039: 0 L0748: 18, H0547: 8, L0731: 8, H0556: 7, H0039: 6, L0666: 6, H0046: 5, H0059: 5, L0775: 5, L0439: 5, L0755: 5, H0622: 4, L0662: 4, L0740: 4, L0751: 4 L0779: 4 H0575: 3				21-54, 112-132, 67-89, 92-108

	H0553: 3, H0529: 3, L0769: 3, L0659: 3, H0519: 3, L0588: 3, L0608: 3, L0593: 3, S0011: 3, H0255: 2, S0418: 2, S0046: 2, H0586: 2, S0049: 2, H0150: 2, H0424: 2, H0644: 2, H0560: 2, H0561: 2, S0002: 2, S0426: 2, L0763: 2, L0772: 2, L0646: 2, L0655: 2, L0527: 2, L0518: 2, L0783: 2, L0664: 2, L0665: 2, L0438: 2, H0689: 2, H0672: 2, H0555: 2, H0631: 2, S0206: 2, L0752: 2, L0757: 2, L0758: 2, L0485: 2, L0601: 2, H0543: 2, H0171: 1, H0265: 1, S0040: 1, H0294: 1, T0049: 1, S0134: 1, H0583: 1, H0657: 1, H0484: 1, H0661: 1, H0125: 1, S0420: 1, S0354: 1, S0358: 1, S0360: 1, S0410: 1, H0580: 1, S0132: 1, H0550: 1, H0431: 1, H0592: 1, H0587: 1, H0333: 1, H0270: 1, H0013: 1, H0599: 1, T0082: 1, H0318: 1, H0251: 1, H0309: 1, T0110: 1, H0545: 1, H0041: 1.
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442	HRAEB76	845247	452	1194 -	1857	Ile-19 to Lys-25.	AR096: 8, AR039: 4, H0423: 1.	H0620: 1, H0024: 1, H0057: 1, H0014: 1, S0051: 1, H0083: 1, S0024: 1, H0355: 1, H0266: 1, H0271: 1, H0188: 1, S0250: 1, H0328: 1, H0615: 1, L0483: 1, H0030: 1, H0031: 1, H0111: 1, H0032: 1, H0383: 1, H0674: 1, H0211: 1, L0456: 1, H0068: 1, H0135: 1, H0040: 1, H0634: 1, H0551: 1, H0412: 1, S0450: 1, H0647: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0768: 1, L0649: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0657: 1, L0515: 1, L0658: 1, L0383: 1, L0809: 1, L0663: 1, S0006: 1, H0520: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, H0696: 1, S0027: 1, L0754: 1, L0747: 1, L0750: 1, L0591: 1, L0595: 1, L0603: 1, S0106: 1, H0668: 1, H0542: 1 and H0423: 1.					56-75, 2-
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				1517				AR053: 4, AR052: 4, AR089: 3, AR033: 3, AR060: 2, AR104: 2, AR055: 1, AR061: 1 L0756: 4, L0803: 3, L0754: 3, L0731: 3, L0766: 2, L0666: 2, L0779: 2, L0755: 2, S6024: 1, S0114: 1, H0486: 1, L0021: 1, T0082: 1, L0145: 1, L0764: 1, L0363: 1, L0794: 1, L0804: 1, S0052: 1, H0555: 1, L0758: 1, L0592: 1, S0026: 1, H0136: 1 and S0460: 1.				18
443	HPJAO13	845355	453	139 - 612	1858			AR061: 2, AR089: 1, AR055: 1, AR052: 1, AR033: 1, AR060: 1, AR096: 1, AR039: 0, AR053: 0, AR104: 0 S0152: 1				19-37, 88- 106, 40- 56, 62-78, 130-146
444	HHENF67	845465	454	148 - 546	1859	Gly-44 to Phe-55, Pro-57 to Ser-64, Arg-83 to Gly-90, Leu-98 to Thr-105.		AR096: 43, AR053: 36, AR039: 32, AR089: 28, AR052: 26, AR104: 19, AR060: 19, AR033: 18, AR055: 7, AR061: 5 S0360: 3, H0031: 3, H0547: 3, L0015: 2, H0583: 1, L0443: 1, H0613: 1,				110-126, 11-27

									H0586: 1, H0013: 1, S0346: 1, H0546: 1, H0551: 1, H0059: 1, H0509: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0657: 1, L0659: 1, L0526: 1, L0666: 1, L0664: 1, S0380: 1 and H0543: 1.					
445	HLQDC55	846521	455	10 - 444	1860	Met-1 to Ser-7, Gly-16 to Ile-24, Thr-28 to Asp-38, Asp-55 to Phe-64, Ser-76 to Lys-82, Leu-116 to Glu-124.			AR055: 12, AR061: 7, AR060: 6, AR053: 5, AR033: 4, AR089: 4, AR052: 3, AR096: 2, AR104: 2, AR039: 0 H0574: 1 and S0344: 1.				91-110	
446	HTTJW49	846674	456	94 - 660	1861	Gly-49 to Thr-57, Gly-139 to Arg-144.			AR055: 4, AR060: 3, AR033: 3, AR096: 3, AR061: 3, AR039: 2, AR089: 2, AR052: 2, AR053: 1, AR104: 1 L0769: 3, L0803: 3, L0748: 3, L0749: 3, H0574: 2, H0046: 2, H0634: 2, S0440: 2, L0794: 2, L0805: 2, L0776: 2, L0439: 2, L0754: 2, L0747: 2, L0755: 2, L0605: 2, L0593: 2, H0686: 1, S0360: 1, L0717: 1, H0069: 1, H0575: 1, H0263: 1, H0620: 1, H0024:	7q21.3- q22.1		120160, 120160, 120160, 120160, 126650, 126650, 129900, 154276, 173360, 173360, 183600, 602136, 602136, 602136, 602447	77-94	

447	HSYAD28	846772	457	98 - 442	1862	Gln-33 to Gly-42, Ser-69 to Ala-77.	1, S0388: 1, H0510: 1, H0266: 1, H0644: 1, L0455: 1, H0163: 1, H0561: 1, S0438: 1, H0695: 1, L0763: 1, L0800: 1, L0804: 1, L0774: 1, L0775: 1, L0807: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1, L0665: 1, L0438: 1, H0658: 1, H0539: 1, S0152: 1, H0522: 1, L0740: 1, L0777: 1, L0603: 1, S0276: 1 and H0542: 1.					87-111
448	HLWAR77	847144	458	32 - 997	1863	Gln-87 to Pro-104, Trp-107 to Lys-119,	AR089: 2, AR096: 2, AR053: 2, AR052: 2, AR039: 2, AR060: 1, AR055: 1, AR104: 1, AR033: 1, AR061: 1 L0766: 6, L0749: 6, L0803: 2, H0395: 1, H0556: 1, H0599: 1, H0196: 1, H0545: 1, H0551: 1, H0633: 1, L0772: 1, L0800: 1, L0794: 1, L0806: 1, L0382: 1, S0152: 1, L0751: 1, L0754: 1, L0750: 1, L0608: 1, H0542: 1 and H0543: 1.					54-85, 170-198,

						Thr-156 to Gln-163, Ser-168 to Lys-173, Glu-240 to Phe-246, Ser-285 to His-291, Tyr-297 to Gln-306, Glu-312 to Ser-320.	AR104: 1, AR060: 1, AR061: 1, AR053: 1, AR052: 1, AR055: 1 H0553: 4 and L0759: 2.			121-141, 21-45, 208-224
449	HCE2W33	847388	459	1134 - 1820	1864	His-78 to Tyr-106, Glu-115 to Asp-120, Trp-139 to Thr-146, Pro-153 to Thr-187, Pro-213 to Ser-220.	AR104: 249, AR061: 203, AR060: 179, AR033: 175, AR039: 168, AR055: 147, AR096: 122, AR089: 92, AR053: 67, AR052: 66 L0741: 18, L0766: 10, L0438: 9, H0052: 6, L0748: 6, H0622: 5, H0617: 5, L0665: 5, H0539: 5, H0542: 5, S0418: 4, H0553: 4, H0059: 4, H0494: 4, L0666: 4, H0521: 4, L0751: 4, L0750: 4, L0758: 4, L0759: 4, L0593: 4, L0595: 4, H0543: 4, H0656: 3, H0484: 3, S0420: 3, H0706: 3, H0086: 3, H0009: 3, H0050: 3, H0124: 3, H0087: 3, T0042: 3, H0509: 3, L0770: 3, L0761: 3, L0772: 3, L0771: 3, L0768: 3, L0497: 3, L0776: 3, L0659: 3, L0664: 3, L0439: 3, L0740: 3, L0591: 3, H0556: 2,			47-77



450	HSOAC39	847431	460	77 - 679	1865	Ala-118 to Phe-124, Arg-178 to Lys-201.	H0328: 1, H0428: 1, L0142: 1, S0364: 1, H0040: 1, H0616: 1, H0551: 1, H0264: 1, H0268: 1, H0412: 1, I0041: 1, S0440: 1, S0144: 1, S0142: 1, S0210: 1, H0695: 1, L0369: 1, L0763: 1, L0769: 1, L5565: 1, L0667: 1, L0646: 1, L0643: 1, L0648: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0651: 1, L0653: 1, L0658: 1, L0383: 1, L0663: 1, H0519: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, H0134: 1, H0555: 1, H0576: 1, S014: 1, S0032: 1, L0745: 1, L0749: 1, L0731: 1, H0445: 1, S0434: 1, L0581: 1, L0361: 1, H0668: 1, S0276: 1, L0469: 1, H0422: 1 and S0460: 1. AR096: 2, AR033: 2, AR053: 2, AR060: 2, AR089: 1, AR104: 1, AR052: 1, AR055: 1, AR061: 1, AR039: 0 S0358: 36, S0374: 19, S0408: 16, S0444: 15, L0518: 12, S0442: 11,						1-28, 151- 175, 127- 143
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451	HAAV01	847551	461	357 - 707	1866	Ala-28 to Thr-35.	1, L0640: 1, L0763: 1, L0642: 1, L0363: 1, L0386: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0776: 1, L0659: 1, L0517: 1, L0543: 1, L0664: 1, L0665: 1, H0144: 1, H0682: 1, H0658: 1, H0670: 1, S0380: 1, S0044: 1, H0134: 1, S0404: 1, L0743: 1, L0750: 1, L0731: 1, L0757: 1, H0445: 1, S0011: 1, H0668: 1 and S0276: 1. AR055: 2, AR053: 2, AR039: 2, AR033: 2, AR089: 1, AR052: 1, AR061: 1, AR060: 1, AR096: 0 H0255: 4, H0617: 3, L0666: 3, H0690: 3, L0742: 3, S0222: 2, H0618: 2, L0665: 2, H0265: 1, H0556: 1, H0295: 1, S0212: 1, H0661: 1, S0354: 1, S0376: 1, S0360: 1, S0046: 1, H0619: 1, L0717: 1, S0278: 1, H0455: 1, H0438: 1, H0559: 1, S0049: 1, H0052: 1, H0024: 1, S0051: 1, S0628: 1, H0428: 1, H0424:					86-109, 40-56
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452	HWGQC67	847568	462	121 - 522	1867	Lys-53 to Asn-58.	1, H0673: 1, H0124: 1, H0087: 1, H0551: 1, H0561: 1, S0210: 1, H0529: 1, L0761: 1, L0644: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0656: 1, H0519: 1, H0659: 1, H0672: 1, L0777: 1, L0698: 1 and H0677: 1. AR053: 1, AR089: 1, AR033: 1, AR061: 1, AR060: 0, AR096: 0, AR052: 0, AR055: 0, AR039: 0, AR104: 0 L0805: 3, L0659: 3, S0406: 3, L0779: 3, S0376: 2, H0013: 2, H0553: 2, L0761: 2, L0773: 2, L0662: 2, L0794: 2, L0803: 2, L0665: 2, H0539: 2, S0404: 2, L0748: 2, L0754: 2, L0731: 2, H0265: 1, S0114: 1, H0583: 1, H0650: 1, S0212: 1, S0442: 1, S0354: 1, S0408: 1, H0351: 1, H0592: 1, H0575: 1, S0474: 1, H0581: 1, H0271: 1, H0687: 1, H0622: 1, S0382: 1, S0448: 1, H0529: 1, L0640: 1, L0763: 1, L0764:				93-114, 17-35, 70- 86
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453	HFLJC17	847634	463	394 - 726	1868	Ser-35 to Arg-45.	1, L0771: 1, L0804: 1, L0776: 1, L0655: 1, L0788: 1, L0666: 1, H0666: 1, H0555: 1, L0751: 1, L0750: 1 and L0759: 1. AR052: 7, AR096: 7, AR089: 5, AR053: 4, AR060: 4, AR033: 3, AR104: 2, AR061: 2, AR055: 2, AR039: 0 H0438: 1, L0764: 1, L0626: 1, H0445: 1 and S0194: 1.					46-62, 18- 34
454	HBXCD74	847677	464	709 - 1014	1869	Pro-3 to Glu-8.	AR096: 3, AR089: 2, AR053: 1, AR104: 1, AR055: 1, AR060: 1, AR052: 1, AR061: 1, AR039: 0, AR033: 0 L0439: 11, L0751: 5, S0222: 3, L0769: 3, L0766: 3, H0617: 2, S0038: 2, L0770: 2, L0764: 2, L0794: 2, L0438: 2, L0747: 2, L0752: 2, H0445: 2, S6024: 1, S0001: 1, H0351: 1, H0586: 1, S0010: 1, H0373: 1, S0051: 1, T0010: 1, S6028: 1, H0264: 1, S0150: 1, L0768: 1, S0052: 1,					64-80

455	HPICD14	847876	465	1284 - 544	1870	Pro-44 to Trp-49, Met-58 to His-65, Pro-68 to Lys-76, Ser-153 to Asp-158, Ser-235 to Gln-246.	H0522: 1, L0741: 1, L0753: 1, L0758: 1 and H0422: 1. AR033: 5, AR096: 5, AR052: 5, AR055: 5, AR089: 4, AR053: 4, AR061: 4, AR060: 4, AR039: 2, AR104: 2 L0748: 8, L0766: 7, L0771: 5, S0422: 3, H0529: 3, H0519: 3, L0749: 3, L0756: 3, H0641: 2, L0659: 2, S0374: 2, L0438: 2, H0547: 2, L0751: 2, L0750: 2, L0758: 2, H0484: 1, S0420: 1, S0442: 1, S0358: 1, S0410: 1, S0007: 1, H0632: 1, L0483: 1, H0606: 1, H0268: 1, H0494: 1, S0150: 1, L0763: 1, L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0653: 1, L0809: 1, L0666: 1, H0144: 1, H0520: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0754: 1, L0777: 1, S0434: 1, L0592: 1, L0608: 1, L0593: 1, H0136: 1, H0543: 1 and H0422: 1.				210-235, 95-117, 184-204, 161-177, 123-139
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456	HBGNJ21	848184	466	21 - 521	1871	Gln-151 to Gln-157.	AR096: 1, AR039: 1, AR033: 1, AR060: 1, AR053: 1, AR052: 1, AR089: 1, AR055: 1, AR061: 0, AR104: 0 H0617: 3, S0282: 1, S0045: 1, H0135: 1 and S0028: 1.			88-114, 113-137, 17-42, 47- 68
457	HBGNW78	848214	467	299 - 640	1872	Gln-10 to Tyr-16, Asn-20 to Arg-25.	AR033: 1, AR104: 1, AR089: 1, AR096: 1, AR053: 1, AR060: 0, AR061: 0, AR055: 0, AR052: 0, AR039: 0 H0617: 5, S0278: 1 and S0028: 1.			49-69
458	HSDZN36	848395	468	652 - 1053	1873		AR055: 16, AR033: 14, AR060: 13, AR061: 10, AR104: 10, AR052: 8, AR089: 7, AR053: 6, AR039: 5, AR096: 5 S0414: 26, L0777: 8, L0758: 4, S0422: 3, L0731: 3, H0170: 2, S6016: 2, H0009: 2, L0471: 2, H0051: 2, S6028: 2, H0266: 2, L0653: 2, L0809: 2, L0666: 2, L0663: 2, H0689: 2, L0745: 2, L0750: 2, S0412: 2, S0358: 1, S0360: 1,			114-132, 65-82, 39- 55, 14-30

459	HFPCS09	848480	469	9 - 401	1874				S0408: 1, H0728: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, H0587: 1, H0574: 1, H0052: 1, H0046: 1, H0615: 1, H0428: 1, H0553: 1, S0036: 1, H0090: 1, H0591: 1, H0623: 1, S0440: 1, L0637: 1, L0771: 1, L0794: 1, L0766: 1, L0388: 1, L0803: 1, L0774: 1, L0805: 1, L0607: 1, L0659: 1, L0636: 1, L0647: 1, L0790: 1, L0664: 1, L0665: 1, H0519: 1, H0658: 1, S0378: 1, H0518: 1, S0152: 1, H0521: 1, S3012: 1, L0779: 1, L0752: 1, L0759: 1, S0434: 1 and H0653: 1, AR039: 74, AR096: 66, AR053: 44, AR055: 38, AR052: 38, AR033: 34, AR104: 33, AR089: 27, AR060: 21, AR061: 19				32-48, 98-117, 8-24
460	HAIBB95	848610	470	301 - 795	1875	Glu-9 to Leu-18, Leu-22 to Pro-27.			AR039: 16, AR055: 12, AR104: 8, AR053: 8, AR033: 8, AR060: 7, AR052: 7, AR096: 6, AR089: 6, AR061: 6				88-107

461	HHEFI08	848769	471	109 - 417	1876	Gly-82 to Tyr-87.	H0038: 3, L0770: 3, L0777: 3, L0794: 2, L0766: 2, L0803: 2, L0779: 2, L0758: 2, S0132: 1, H0393: 1, H0549: 1, H0586: 1, H0559: 1, H0004: 1, H0581: 1, H0545: 1, H0457: 1, H0266: 1, H0030: 1, H0316: 1, H0551: 1, H0056: 1, L0659: 1, L0517: 1, L0792: 1, H0691: 1, H0555: 1 and L0599: 1.				61-79
462	HE8OM63	848773	472	10 - 432	1877	Ala-57 to Trp-62.	AR096: 1, AR089: 1, AR060: 1, AR061: 1, AR033: 0, AR052: 0, AR055: 0, AR039: 0, AR053: 0, AR104: 0 H0561: 1, L0748: 1 and H0542: 1.				110-128
463	HAIAG88	848785	473	158 - 631	1878	Arg-26 to Cys-31.	AR089: 1, AR033: 0, AR055: 0, AR039: 0, AR053: 0, AR060: 0, AR096: 0, AR061: 0, AR052: 0, AR104: 0 H0013: 1 and H0561: 1. AR096: 6, AR089: 4, AR039: 3, AR053: 3, AR033: 3, AR052: 3, AR060: 2, AR104: 2,				2-24, 116- 139, 32- 49, 93- 111, 62-78

464	HAIJCL92	849547	474	33 - 2522	1879	Lys-136 to Glu-143, Lys-184 to Ser-189, Ser-195 to Asn-205, Asn-232 to Thr-240, Arg-276 to Phe-285, Glu-406 to Glu-414, Thr-476 to Tyr-482, Tyr-496 to Ala-501, Pro-588 to Glu-593, Pro-612 to Leu-618, Gly-623 to Gln-630, Thr-670 to Ser-681, Lys-701 to Glu-715, Lys-759 to Glu-769, Met-773 to Asn-797, Ser-809 to Asp-823.	AR055: 2, AR061: 1 L0527: 2, H0657: 1, H0341: 1, S0222: 1, H0438: 1, T0048: 1, S0049: 1, S0250: 1, S0036: 1, H0087: 1, H0561: 1, L0369: 1, L0388: 1, L0518: 1, H0520: 1, H0519: 1, H0435: 1, L0366: 1 and L0697: 1.				739-756, 89-105, 249-265, 166-182, 511-527
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465	HHAMA15	849576	475	62 - 646	1880				1, H0013: 1, H0069: 1, H0575: 1, H0004: 1, H0318: 1, H0050: 1, H0014: 1, S0388: 1, H0687: 1, S0250: 1, S0003: 1, H0090: 1, H0616: 1, L0060: 1, H0551: 1, H0268: 1, H0412: 1, H0413: 1, H0561: 1, S0352: 1, S0372: 1, S0150: 1, L0640: 1, L0804: 1, L0650: 1, L0383: 1, L0791: 1, H0144: 1, H0519: 1, H0435: 1, H0648: 1, H0672: 1, H0521: 1, S0406: 1, H0478: 1, S0037: 1, S0027: 1, L0439: 1, L0751: 1, L0754: 1, L0750: 1, L0752: 1, L0759: 1, L0361: 1, H0136: 1 and S0196: 1.				109-133, 175-191, 30-46
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								1, S0444: 1, S0222: 1, H0486: 1, T0048: 1, H0041: 1, H0024: 1, H0646: 1, L0800: 1, L0662: 1, L0629: 1, L0518: 1, L0809: 1, L0791: 1, S0374: 1, H0627: 1, L0756: 1, L0755: 1, L0731: 1 and L0759: 1.				
466	HPJDE45	849610	476	550 - 1353	1881	Ala-5 to Asn-28, Pro-47 to His-52, Tyr-83 to Arg-90.		AR096: 3, AR089: 3, AR053: 3, AR060: 2, AR033: 2, AR104: 2, AR055: 2, AR039: 1, AR052: 1, AR061: 1 H0436: 3, L0605: 3, H0551: 2, L0662: 2, S0028: 2, L0748: 2, L0754: 2, L0759: 2, S0134: 1, S0001: 1, S0358: 1, S0360: 1, H0550: 1, H0404: 1, H0156: 1, H0041: 1, H0050: 1, H0031: 1, H0591: 1, S0386: 1, L0521: 1, L0803: 1, H0547: 1, H0682: 1, H0658: 1, S0152: 1, S0027: 1, L0745: 1, H0445: 1, S0196: 1 and H0423: 1.				245-261
467	HPMJG77	849645	477	179 - 1405	1882	Met-1 to Ser-8, Ser-31 to Asp-40, Asn-44 to Val-51,		AR033: 7, AR060: 7, AR052: 7, AR055: 6, AR096: 5, AR089: 5,				298-314, 69-85

Asp-87 to Ser-95, Pro-115 to Ser-125, Phe-131 to Phe-138, Leu-166 to Gly-171, His-197 to Gln-206, Leu-217 to Lys-224, Thr-359 to Glu-370, Met-373 to Tyr-378, Lys-403 to Asn-409.	AR053: 5, AR039: 4, AR061: 3, AR104: 2 L0803: 15, L0766: 5, S0208: 4, L0758: 4, S0222: 3, S0003: 3, H0529: 3, L0770: 3, L0666: 3, L0756: 3, H0170: 2, H0171: 2, S0356: 2, H0637: 2, S0045: 2, L0763: 2, L0662: 2, L0794: 2, L0774: 2, L0805: 2, L0809: 2, H0436: 2, L0747: 2, L0750: 2, L0755: 2, H0624: 1, S0418: 1, H0741: 1, S0132: 1, H0331: 1, H0013: 1, H0318: 1, S0049: 1, H0052: 1, H0596: 1, H0457: 1, H0051: 1, H0510: 1, S6028: 1, S0214: 1, H0428: 1, H0553: 1, H0644: 1, H0032: 1, H0090: 1, H0591: 1, H0616: 1, H0413: 1, H0494: 1, L0475: 1, S0438: 1, S0344: 1, L0796: 1, L0637: 1, L0646: 1, L0800: 1, L0648: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0807: 1, L0527: 1, L0659: 1, L0790: 1, L0791: 1, L0664: 1, H0725: 1, S0148: 1, H0520:
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468	HBCCG79	850225	478	184 - 723	1883	Pro-3 to Thr-9, Leu-39 to Val-44, Ile-121 to Tyr-128, Ser-149 to Val-156.	1, H0519: 1, H0593: 1, S0330: 1, H0521: 1, H0522: 1, S0406: 1, S0392: 1, S3014: 1, S0028: 1, S0206: 1, L0740: 1, L0754: 1, L0745: 1, L0779: 1, L0777: 1, L0752: 1, L0731: 1, S0436: 1, L0596: 1, S0194: 1 and H0423: 1. AR052: 20, AR096: 20, AR089: 15, AR053: 14, AR060: 13, AR033: 10, AR055: 9, AR039: 8, AR104: 5, AR061: 4 S0126: 6, L0766: 5, S0046: 3, S0152: 3, L0748: 3, S0354: 2, S0376: 2, S0045: 2, H0013: 2, H0050: 2, H0634: 2, H0547: 2, H0521: 2, S0028: 2, L0747: 2, L0731: 2, L0596: 2, S0040: 1, H0657: 1, H0381: 1, S0356: 1, S0360: 1, H0393: 1, L0717: 1, H0370: 1, H0599: 1, H0318: 1, H0581: 1, H0123: 1, L0471: 1, H0024: 1, H0014: 1, H0266: 1, S0003: 1, S0022: 1, H0031: 1, H0591: 1, H0038: 1, H0551: 1, T0042: 1,						130-146
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									H0561: 1, S0144: 1, H0529: 1, L0646: 1, L0794: 1, L0774: 1, L0776: 1, L0659: 1, L0666: 1, L0664: 1, H0435: 1, S0378: 1, H0555: 1, S0027: 1, S0206: 1, L0750: 1, L0759: 1, H0653: 1 and H0543: 1.				
469	HFTHQ53	850238	479	19 - 651	1884	Thr-43 to Leu-48, Ala-74 to Ser-85, Ser-122 to Asn-130, Gln-133 to Gly-139.			AR033: 1, AR096: 1, AR052: 1, AR055: 1, AR060: 1, AR089: 1, AR104: 1, AR039: 1, AR061: 1, AR053: 1 H0656: 2, S0420: 2, L0364: 2, H0650: 1, H0657: 1, S0356: 1, S0360: 1, H0486: 1, H0598: 1, H0591: 1, H0529: 1, L0764: 1, H0519: 1, H0521: 1, H0522: 1, S0044: 1, H0445: 1, S0194: 1 and H0677: 1.				95-111
470	HUVFU38	850252	480	367 - 960	1885	Ala-47 to Asp-53, Glu-105 to Arg-112, Tyr-150 to Leu-157.			AR055: 8, AR061: 5, AR060: 5, AR096: 4, AR089: 4, AR052: 4, AR033: 4, AR053: 3, AR104: 3, AR039: 3 H0623: 2 and S0278: 1.				159-179
471	HUDBK83	850353	481	3238 - 1439	1886	Gly-38 to Asp-47, Thr-208 to Phe-221,			AR089: 4, AR033: 4, AR052: 4, AR096: 4,				234-251, 18-34,

					Glu-273 to Tyr-279, Thr-286 to Arg-291, Ala-341 to Asn-346, Ser-365 to Leu-370, Asp-519 to Thr-526, Pro-563 to Gly-568.	AR053: 3, AR060: 3, AR061: 3, AR055: 3, AR039: 2, AR104: 2 H0253: 10, H0617: 8, H0559: 7, H0265: 6, H0618: 5, H0551: 5, S0434: 5, H0052: 4, H0620: 4, L0794: 4, H0556: 3, H0135: 3, H0087: 3, L0659: 3, L0666: 3, L0663: 3, L0438: 3, H0522: 3, L0749: 3, H0171: 2, H0657: 2, H0341: 2, H0484: 2, H0255: 2, S0356: 2, S0360: 2, S0046: 2, H0550: 2, H0251: 2, H0051: 2, H0188: 2, H0424: 2, H0031: 2, H0040: 2, H0494: 2, S0344: 2, L0769: 2, L0662: 2, L0774: 2, L0783: 2, L0809: 2, H0696: 2, L0439: 2, L0751: 2, L0779: 2, L0731: 2, L0759: 2, L0605: 2, L0361: 2, L0601: 2, H0624: 1, H0159: 1, S06024: 1, H0295: 1, H0656: 1, S0420: 1, S0442: 1, S0408: 1, H0637: 1, L0717: 1, H0351: 1, S0222: 1, H0441: 1, H0370: 1, H0592: 1, H0586: 1, H0497: 1,	157-173, 443-459
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	H0643: 1, H0257: 1, H0013: 1, H0635: 1, H0156: 1, H0042: 1, H0706: 1, H0318: 1, H0581: 1, H0194: 1, H0327: 1, H0046: 1, H0009: 1, H0178: 1, H0565: 1, H0012: 1, H0023: 1, H0201: 1, S0051: 1, H0083: 1, S6028: 1, H0266: 1, H0271: 1, H0428: 1, H0604: 1, H0417: 1, H0181: 1, H0708: 1, H0163: 1, H0038: 1, H0634: 1, H0063: 1, H0264: 1, H0412: 1, S0038: 1, L0351: 1, H0359: 1, S0150: 1, H0646: 1, H0538: 1, S0002: 1, S0426: 1, L0640: 1, L0772: 1, L0372: 1, L0641: 1, L0643: 1, L0764: 1, L0767: 1, L0768: 1, L0766: 1, L0375: 1, L0378: 1, L0806: 1, L0652: 1, L0656: 1, L0636: 1, L0790: 1, L0664: 1, H0144: 1, S0374: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, H0682: 1, H0651: 1, S0328: 1, H0539: 1, S0380: 1, S0332: 1, S0406: 1, S3014: 1, S0027: 1, L0754: 1.
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472	HDPSB01	850581	482	38 - 391	1887		L0750: 1, L0755: 1, L0757: 1, L0758: 1, S0031: 1, S0436: 1, L0593: 1, H0667: 1, H0217: 1, H0423: 1, H0422: 1 and S0042: 1.  AR052: 5, AR039: 4, AR053: 4, AR033: 3, AR096: 3, AR060: 3, AR055: 3, AR089: 2, AR104: 2, AR061: 1 H0521: 7, L0519: 4, L0598: 3, L0794: 3, L0779: 3, L0755: 3, H0542: 3, H0637: 2, H0251: 2, L0662: 2, L0803: 2, H0436: 2, L0743: 2, L0749: 2, L0752: 2, L0599: 2, H0543: 2, H0661: 1, H0305: 1, S0358: 1, S0360: 1, S0278: 1, H0486: 1, H0427: 1, T0082: 1, H0309: 1, H0014: 1, H0271: 1, H0561: 1, S0144: 1, S0344: 1, L0631: 1, L0800: 1, L0804: 1, L0651: 1, L0806: 1, L0653: 1, L0776: 1, L0527: 1, L0659: 1, L0666: 1, H0144: 1, H0672: 1, H0696: 1, H0478: 1, L0750: 1, L0756: 1, L0758: 1 S0031: 1 H0444:				49-76, 1- 17, 30-46, 94-110
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473	HKAPB61	850629	483	45 - 572	1888	Pro-16 to Thr-25, Thr-47 to Leu-54, Tyr-62 to Gln-77, Pro-112 to Tyr-131.	1, H0445: 1, H0595: 1, L0592: 1, S0192: 1 and S0242: 1. AR033: 12, AR104: 12, AR060: 9, AR089: 8, AR055: 7, AR061: 7, AR053: 6, AR052: 6, AR039: 4, AR096: 4 H0624: 2, H0014: 2, H0622: 2, H0038: 2, H0616: 2, H0661: 1, T0082: 1, H0494: 1, H0538: 1, H0144: 1, S0126: 1, L0743: 1, L0754: 1 and L0758: 1.				131-147
474	HMEGF05	850930	484	427 - 831	1889	Leu-32 to Val-37.	AR055: 6, AR096: 6, AR052: 5, AR060: 4, AR089: 4, AR033: 3, AR039: 3, AR061: 3, AR053: 2, AR104: 1 H0457: 4, S0045: 1, H0586: 1, H0581: 1, H0266: 1, H0628: 1, L0659: 1 and H0519: 1.				66-90, 1- 19, 36-54, 97-113
475	HPTVF17	850963	485	230 - 691	1890	Glu-8 to Thr-13, Glu-18 to Pro-25, Ser-48 to Val-55.	AR052: 10, AR053: 10, AR055: 9, AR033: 6, AR061: 5, AR060: 5, AR039: 5, AR089: 5, AR104: 4, AR096: 4 S0420: 1, H0424: 1,				93-111



476	HDLBF57	851303	486	19 - 561	1891	Glu-40 to Gln-48.	S0144: 1 and L0595: 1. AR033: 8, AR053: 7, AR089: 6, AR052: 6, AR055: 5, AR039: 5, AR060: 4, AR096: 4, AR061: 3, AR104: 3 L0157: 4, H0038: 4, H0013: 3, L0766: 3, S0354: 2, H0545: 2, L0794: 2, L0783: 2, L0665: 2, H0144: 2, L0756: 2, L0777: 2, L0593: 2, L0595: 2, H0665: 2, H0656: 1, H0484: 1, H0254: 1, H0125: 1, S0356: 1, S6026: 1, H0485: 1, H0618: 1, H0318: 1, S0388: 1, H0266: 1, H0039: 1, H0673: 1, H0412: 1, L0770: 1, L0769: 1, L0761: 1, L0803: 1, L0653: 1, L0382: 1, L0792: 1, S0052: 1, H0690: 1, H0658: 1, H0539: 1, S3014: 1, S0028: 1, L0779: 1, L0758: 1 and L0759: 1.			133-165, 1-22, 57- 75, 92-108
477	HE8QT62	851311	487	1129 - 1530	1892	Ser-31 to Gln-44, Ser-91 to Gln-96.	AR052: 11, AR055: 9, AR061: 7, AR053: 6, AR033: 6, AR096: 6, AR060: 6, AR089: 5,			56-74

478	HE9FI33	851342	488	45 - 416	1893	Arg-65 to His-70.	AR104: 3, AR039: 2 H0013: 3, H0090: 2, S0002: 2, H0144: 2, H0161: 1, S0134: 1, S0418: 1, S0360: 1, H0580: 1, S0045: 1, S0222: 1, H0244: 1, H0575: 1, H0039: 1, H0032: 1, H0616: 1, H0063: 1, S0142: 1, H0529: 1, L0372: 1, L0803: 1, L0790: 1, L0791: 1, H0521: 1, L0593: 1, S0242: 1, H0543: 1 and H0423: 1.					3-27, 93- 118, 32- 49, 73-89
479	H0UBJ40	851343	489	48 - 506	1894	Lys-42 to Gly-48, Asp-71 to Pro-76, Tyr-84 to Met-91.	AR055: 7, AR052: 4, AR053: 4, AR060: 4, AR061: 4, AR033: 3, AR089: 3, AR096: 3, AR104: 3, AR039: 2 L0749: 2, H0144: 1 and L0748: 1. AR055: 9, AR052: 7, AR060: 6, AR053: 6, AR033: 5, AR061: 5, AR096: 5, AR089: 5, AR039: 3, AR104: 3 L0666: 2, L0779: 2, S0040: 1, S0442: 1, H0634: 1, L0643: 1, L0804: 1, L0775: 1, L0809: 1, H0144:					101-117

480	HHEVC06	851355	490	566 - 1060	1895	Pro-58 to His-69, Glu-132 to Asn-138.	1, L0777: 1 and L0752: 1. AR096: 9, AR089: 7, AR052: 6, AR053: 6, AR039: 4, AR060: 4, AR104: 4, AR033: 2, AR055: 2, AR061: 1 L0526: 1, H0144: 1, L0748: 1 and H0543: 1.			7-23, 106- 122, 139- 155
481	HE8FS36	851478	491	118 - 456	1896		AR039: 7, AR055: 7, AR096: 6, AR033: 6, AR052: 5, AR060: 5, AR089: 5, AR053: 5, AR061: 3, AR104: 3 L0766: 2, L0759: 2, H0580: 1, H0611: 1, H0013: 1, S0474: 1, H0057: 1, H0268: 1, H0413: 1, L0655: 1, L0748: 1, L0756: 1, H0595: 1 and L0594: 1.			40-68, 1- 24, 76-92
482	HE2SS47	851581	492	610 - 942	1897		AR089: 1, AR053: 1, AR060: 0, AR061: 0, AR055: 0, AR096: 0, AR039: 0, AR033: 0, AR052: 0 S0001: 2, H0624: 1, H0255: 1, S0428: 1, S0152: 1, S0028: 1, S0031: 1 and S0260: 1.			71-108, 68-84
483	HTELD06	851722	493	243 -	1898	Tyr-25 to Val-30.	AR089: 12, AR033: 12,			156-172

484	HDPJH06	851787	494	551 - 916	1899	Thr-2 to Val-8, Leu-43 to Gln-48, Lys-53 to Gln-61.	AR052: 11, AR060: 10, AR096: 8, AR053: 7, AR104: 5, AR039: 5, AR061: 4, AR055: 3 H0616: 2, L0665: 2, L0779: 2, H0624: 1, H0156: 1, L0766: 1, L0803: 1, L0517: 1, L0367: 1, L0792: 1, L0663: 1, L0748: 1, L0754: 1 and L0758: 1. AR096: 5, AR052: 5, AR039: 5, AR053: 4, AR089: 3, AR033: 3, AR060: 3, AR104: 3, AR055: 2, AR061: 1 S0003: 4, L0756: 4, H0521: 3, H0171: 2, H0014: 2, S0214: 2, L0748: 2, L0747: 2, L0755: 2, H0581: 1, H0263: 1, L0471: 1, H0266: 1, H0328: 1, H0615: 1, H0553: 1, H0032: 1, H0591: 1, H0038: 1, H0100: 1, H0494: 1, S0422: 1, S0002: 1, L0773: 1, L0766: 1, L0375: 1, L0776: 1, L0527: 1, L0659: 1, H0520: 1, H0478: 1, L0750: 1, L0779: 1, L0759: 1, S0031: 1, L0591: 1 and S0026: 1.					93-109
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485	HDTKS69	851859	495	35 - 349	1900		AR033: 10, AR061: 8, AR060: 6, AR089: 4, AR055: 1, AR104: 1, AR096: 1, AR052: 0, AR053: 0, AR039: 0 L0439: 3, H0052: 2, S6028: 2, L0792: 2, H0486: 1, S0346: 1, L0471: 1, S0016: 1, L0776: 1, L0659: 1, L0438: 1 and H0539: 1.			2-30, 70- 89, 41-58
486	HE6CH89	852568	496	132 - 527	1901	Lys-78 to Glu-88, Ser-93 to Glu-102, Ser-109 to Cys-117, Arg-126 to Gln-132.	AR052: 4, AR060: 2, AR033: 2, AR089: 1, AR053: 1, AR096: 1, AR055: 1, AR104: 1, AR061: 1, AR039: 0 L0748: 7, L0659: 3, L0747: 3, S0212: 2, S0010: 2, H0132: 2, L0764: 2, L0744: 2, L0752: 2, L0759: 2, S0424: 2, H0170: 1, S0116: 1, S0358: 1, S6016: 1, H0587: 1, H0575: 1, H0421: 1, H0041: 1, H0050: 1, L0471: 1, H0375: 1, H0615: 1, H0039: 1, H0674: 1, H0100: 1, H0625: 1, H0654: 1, H0529: 1, L0364: 1, L0636: 1, L0526: 1, L0783: 1, L0532: 1, L0663: 1, L0665: 1, H0724: 1,			57-79, 30- 49

487	HDPGS20	852676	497	18 - 833	1902	Pro-36 to Gln-42, Cys-73 to Ser-86.	H0658: 1, H0660: 1, H0521: 1, H0522: 1, S0406: 1 and L0740: 1. AR089: 1, AR033: 1, AR053: 1, AR055: 1, AR060: 1, AR096: 1, AR061: 0, AR039: 0, AR104: 0, AR052: 0 H0521: 7, S0022: 6, L0770: 6, L0769: 6, L0758: 5, S0051: 4, L0747: 4, L0756: 4, H0638: 3, H0124: 3, L0794: 3, L0805: 3, S0278: 2, S0222: 2, H0052: 2, H0327: 2, H0100: 2, L0789: 2, L0438: 2, L0439: 2, L0751: 2, L0777: 2, L0591: 2, S0282: 1, S0356: 1, L0717: 1, H0441: 1, H0587: 1, L0163: 1, H0051: 1, S0048: 1, H0594: 1, H0328: 1, L0455: 1, S0036: 1, S0038: 1, S0344: 1, L0761: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0809: 1, L0647: 1, H0522: 1, L0750: 1, L0753: 1, H0445: 1 and L0366: 1. AR055: 6, AR060: 4,			210-237, 41-73, 84- 110, 238- 257
488	HWBBZ12	852760	498	3509 -	1903	Ile-37 to Phe-45.			79-97	

489	HDPBI36	852845	499	59 - 607	1904	Lys-57 to Lys-65, Gln-72 to Glu-81, Lys-88 to Lys-93, Tyr-147 to Glu-156.	Leu-109 to Glu-118, Ser-169 to Ser-178.	AR096: 4, AR052: 3, AR061: 2, AR053: 2, AR104: 1, AR033: 1, AR089: 0, AR039: 0 L0766: 9, L0794: 6, L0439: 6, L0731: 5, L0779: 4, L0717: 3, H0622: 2, S0422: 2, L0740: 2, L0756: 2, L0595: 2, H0402: 1, S0420: 1, S0444: 1, H0580: 1, H0208: 1, S0278: 1, H0261: 1, S0222: 1, H0497: 1, H0574: 1, L0471: 1, H0641: 1, L0646: 1, L0764: 1, L0773: 1, L0803: 1, L0804: 1, L0526: 1, L0783: 1, L0791: 1, L0664: 1, L0665: 1, H0520: 1, H0521: 1, H0522: 1, H0696: 1, H0436: 1, L0777: 1, L0755: 1, L0759: 1, H0595: 1, L0604: 1 and H0422: 1.				120-148, 100-121, 158-175
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490	HMAEP64	852960	500	167 - 952	1905	Glu-167 to Met-172, Pro-208 to Arg-218, Arg-243 to Ser-253, Ser-255 to Gly-262.	H0551: 1, T0067: 1, H0380: 1, H0264: 1, H0412: 1, H0625: 1, S0142: 1, L0762: 1, L0763: 1, L0641: 1, L0773: 1, L0768: 1, L0766: 1, L0803: 1, L0650: 1, L0523: 1, L0806: 1, L0653: 1, L0526: 1, L0519: 1, L0647: 1, L0789: 1, L0790: 1, L0666: 1, L0664: 1, S0374: 1, L0438: 1, H0519: 1, H0689: 1, H0690: 1, H0670: 1, H0666: 1, L0602: 1, S0152: 1, H0696: 1, S0146: 1, H0555: 1, H0576: 1, S0037: 1, S0144: 1, L0744: 1, L0439: 1, L0740: 1, L0754: 1, L0750: 1, L0786: 1, L0752: 1, L0757: 1, S0436: 1, L0591: 1, S0026: 1, H0136: 1, S0242: 1, S0276: 1, S0196: 1, H0423: 1 and H0293: 1. AR061: 9, AR089: 5, AR060: 5, AR033: 5, AR055: 5, AR052: 4, AR096: 4, AR039: 3, AR053: 2, AR104: 2 S0278: 3, H0641: 3, S0142: 3, H0521: 3, H0271:					48-74, 218-241, 91-110, 173-191, 146-162
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491	HTYSK68	852980	501	38 - 454	1906	Lys-2 to Glu-21, Lys-34 to Ser-42, Ile-118 to Pro-123.	2, L0770: 2, L0794: 2, L0748: 2, L0777: 2, L0599: 2, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0663: 1, H0638: 1, S0358: 1, S0376: 1, H0545: 1, S0388: 1, H0594: 1, S0144: 1, S0344: 1, L0763: 1, L0646: 1, L0648: 1, L0767: 1, L0766: 1, L0650: 1, L0775: 1, L0787: 1, L0664: 1, S0216: 1, H0576: 1, H0727: 1, L0756: 1, L0757: 1, S0260: 1 and S0436: 1. AR033: 2, AR104: 2, AR055: 2, AR039: 2, AR060: 1, AR052: 1, AR061: 1, AR089: 1, AR053: 1, AR096: 0 L0663: 2, L0439: 2, L0731: 2, H0663: 1, H0497: 1, H0486: 1, H0124: 1, S0036: 1, H0116: 1, H0623: 1, L0633: 1, L0783: 1, L0438: 1, H0547: 1, H0670: 1, S0404: 1, L0748: 1, L0747: 1, L0485: 1, H0667: 1 and H0422: 1.					97-113
492	HDAAD50	852987	502	73 -	1907	Ala-25 to Gly-32.	AR052: 6, AR096: 5,					154-171,

493	HNTNC03	853174	503	28 - 408	1908	Trp-22 to Arg-30, Lys-120 to Glu-127.	AR089: 5, AR033: 5, AR053: 4, AR039: 3, AR060: 3, AR061: 2, AR104: 2, AR055: 2 L0439: 9, L0766: 7, H0251: 5, L0740: 5, L0803: 4, L0794: 3, L0665: 3, H0445: 3, H0156: 2, L0764: 2, L0655: 2, L0518: 2, L0809: 2, L0754: 2, L0747: 2, L0756: 2, L0777: 2, L0759: 2, L0362: 2, S0424: 2, H0171: 1, H0638: 1, S0360: 1, H0580: 1, S0046: 1, H0351: 1, S6014: 1, H0586: 1, H0497: 1, H0574: 1, L0021: 1, S0010: 1, H0596: 1, S0036: 1, H0090: 1, H0591: 1, H0509: 1, L0662: 1, L0768: 1, L0650: 1, L0775: 1, L0806: 1, L0659: 1, H0144: 1, H0702: 1, S0374: 1, H0435: 1, H0648: 1, H0672: 1, H0521: 1, L0752: 1, L0758: 1, S0260: 1, H0667: 1, H0423: 1 and L0465: 1.				6-22
							AR096: 8, AR039: 6, AR089: 6, AR104: 5, AR060: 4, AR033: 3,			93-121, 56-73, 36- 52	

494	HCFNG65	853186	504	42 - 908	1909			AR053: 3, AR052: 3, AR055: 2, AR061: 1 L0748: 4, S0358: 2, L0754: 2, L0756: 2, L0758: 2, H0222: 1, S0212: 1, H0580: 1, H0351: 1, T0039: 1, H0590: 1, H0318: 1, T0071: 1, H0015: 1, S6028: 1, S0036: 1, T0069: 1, H0130: 1, H0646: 1, L0646: 1, L0773: 1, L0662: 1, L0766: 1, L0803: 1, L0666: 1, L0665: 1, H0520: 1, H0547: 1, S0136: 1, H0521: 1, H0696: 1, S0028: 1, L0743: 1, L0745: 1, L0750: 1, L0777: 1, L0759: 1, S0434: 1 and L0596: 1. AR039: 2, AR096: 1, AR089: 1, AR104: 1, AR033: 1, AR052: 0, AR061: 0, AR060: 0, AR053: 0, AR055: 0 L0748: 12, L0766: 11, L0439: 8, L0803: 7, S0136: 6, L0758: 4, L0438: 3, L0751: 3, L0749: 3, H0624: 2, H0318: 2, H0014: 2, H0553: 2, S0422: 2, L0794: 2, L0663: 2, H0144: 2,					56-73, 225-241
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495	HLMMI85	853213	505	787 - 311	1910	Asp-22 to Gln-30, Lys-80 to Gly-91.	H0555: 2, S3014: 2, L0744: 2, L0747: 2, L0485: 2, H0423: 2, H0171: 1, H0657: 1, S0358: 1, H0637: 1, S0050: 1, H0028: 1, H0412: 1, L0351: 1, L0475: 1, H0633: 1, L0662: 1, L0655: 1, L0659: 1, L0518: 1, L0793: 1, L0666: 1, L0664: 1, S0328: 1, S0380: 1, S0350: 1, H0521: 1, H0704: 1, L0743: 1, L0759: 1 and H0668: 1.				138-155, 119-135
496	HBMZ39	853966	506	87 - 590	1911	Arg-17 to Phe-28, Asp-35 to Asp-43, Gly-53 to Ala-60, Gln-127 to Trp-134, Val-156 to Lys-165.	AR055: 9, AR052: 6, AR096: 6, AR060: 6, AR061: 6, AR033: 5, AR089: 4, AR053: 4, AR104: 3, AR039: 3 H0483: 1, H0255: 1, H0600: 1, H0310: 1, L0766: 1, H0436: 1 and H0543: 1. AR039: 21, AR033: 18, AR089: 16, AR052: 14, AR055: 14, AR053: 13, AR096: 11, AR060: 10, AR104: 10, AR061: 10 H0617: 9, L0763: 6, L0754: 2, H0483: 1, L0789: 1 and L0743: 1.				90-107

497	HHEIA70	854202	507	298 - 831	1912	Asp-9 to Ser-18, Ala-27 to Asn-34, Val-63 to Leu-69, Thr-91 to Thr-103, Lys-143 to Asn-148, Thr-160 to Ile-173.	AR039: 39, AR053: 29, AR096: 27, AR052: 25, AR033: 20, AR104: 16, AR089: 10, AR060: 9, AR055: 8, AR061: 5 L0754: 6, S0422: 5, H0547: 5, L0471: 4, L0750: 4, L0362: 4, S0360: 3, H0318: 3, H0581: 3, S0003: 3, H0646: 3, L0740: 3, L0758: 3, H0542: 3, H0265: 2, H0556: 2, H0341: 2, H0497: 2, S0628: 2, H0090: 2, H0591: 2, H0494: 2, L0770: 2, L0655: 2, L0663: 2, S0428: 2, H0144: 2, H0659: 2, H0658: 2, H0672: 2, H0521: 2, L0439: 2, L0777: 2, L0752: 2, L0755: 2, L0731: 2, L0599: 2, L0608: 2, H0422: 2, H0686: 1, S0040: 1, S6024: 1, H0661: 1, H0663: 1, H0638: 1, S0420: 1, S0354: 1, S0358: 1, S0408: 1, S0476: 1, L0717: 1, H0261: 1, H0549: 1, H0455: 1, H0586: 1, L0586: 1, H0635: 1, S0010: 1, H0569: 1, H0620: 1, H0350: 1, H0201: 1,			100-120
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498	HNTNA78	854267	508	179 - 538	1913	Asn-83 to Lys-88, Ala-113 to Glu-119.	S0051: 1, H0179: 1, H0271: 1, S0214: 1, H0644: 1, H0628: 1, H0616: 1, H0264: 1, S0352: 1, S0440: 1, H0641: 1, S0344: 1, H0529: 1, L0520: 1, L0763: 1, L0769: 1, L0667: 1, L0772: 1, L0373: 1, L0646: 1, L0521: 1, L0768: 1, L0649: 1, L0775: 1, L0806: 1, L0652: 1, L0807: 1, L0657: 1, L0659: 1, L0647: 1, L0792: 1, S0053: 1, H0702: 1, S0122: 1, H0648: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0406: 1, H0626: 1, L0751: 1, L0747: 1, L0756: 1, L0779: 1, L0759: 1, S0031: 1, S0260: 1, H0445: 1, L0592: 1, L0601: 1, H0423: 1, H0506: 1 and H0352: 1. AR039: 5, AR096: 3, AR033: 3, AR053: 3, AR060: 3, AR089: 3, AR104: 3, AR055: 2, AR052: 2, AR061: 1 H0351: 11, L0439: 5, H0090: 3, H0616: 3, L0803: 3, L0777: 3, S0222: 2,				51-69, 96- 112
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499	HOVAN91	854277	509	288 - 605	1914	Pro-57 to Trp-62.	H0013: 2, H0318: 2, H0032: 2, L0794: 2, L0766: 2, L0806: 2, L0659: 2, L0565: 2, H0436: 2, L0740: 2, H0170: 1, H0341: 1, S0001: 1, H0671: 1, H0663: 1, H0675: 1, H0550: 1, H0486: 1, H0590: 1, H0196: 1, H0596: 1, N0006: 1, H0569: 1, L0471: 1, S0003: 1, H0428: 1, H0031: 1, H0211: 1, H0591: 1, H0551: 1, H0560: 1, H0652: 1, L0638: 1, L0646: 1, L0662: 1, L0804: 1, L0650: 1, L0776: 1, L0655: 1, L0606: 1, L0636: 1, L0809: 1, L0792: 1, L0666: 1, S0148: 1, L0438: 1, H0520: 1, H0435: 1, H0659: 1, S0406: 1, S0028: 1, L0750: 1, L0779: 1, L0752: 1, L0755: 1, L0731: 1, L0758: 1, S0031: 1, S0260: 1, S0242: 1 and H0422: 1. AR039: 7, AR096: 5, AR052: 4, AR104: 4, AR033: 3, AR053: 3, AR089: 3, AR055: 3, AR060: 3, AR061: 2				73-89, 26- 42
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									L0438: 6, L0439: 6, L0776: 5, H0428: 4, L0805: 4, H0687: 3, L0770: 3, H0651: 3, L0789: 2, L0756: 2, L0758: 2, L0361: 2, S0212: 1, S0001: 1, H0351: 1, H0052: 1, H0327: 1, H0178: 1, L0769: 1, L0767: 1, L0794: 1, L0807: 1, L0759: 1 and L0608: 1.					
500	HLYER32	854463	510	774 - 442	1915				AR096: 4, AR052: 3, AR033: 2, AR104: 2, AR061: 2, AR053: 2, AR089: 1, AR060: 1, AR055: 1, AR039: 0 L0805: 3, L0776: 3, L0766: 2, L0748: 2, L0747: 2, L0750: 2, L0485: 2, S0001: 1, L0534: 1, S0360: 1, H0580: 1, S6014: 1, H0036: 1, S0051: 1, H0188: 1, H0379: 1, S0440: 1, L0761: 1, L0800: 1, L0651: 1, L0659: 1, L0517: 1, L0787: 1, H0593: 1, S0260: 1 and H0445: 1.				69-85	
501	HFPEL47	854659	511	98 - 604	1916	Leu-46 to Trp-52, Glu-90 to Arg-96, Leu-151 to Asp-159.	AR055: 3, AR060: 3, AR033: 2, AR061: 2, AR089: 2, AR052: 2,	Xp22.1- p21.3	300018, 300075, 300077.			106-135		

502	HTPIJ41	854779	512	551 - 1507	1917	Pro-87 to Tyr-99, Pro-102 to Tyr-117, Arg-144 to Trp-150, Phe-164 to Ile-180, Trp-293 to Tyr-307.	AR053: 2, AR096: 1, AR104: 1, AR039: 1 S0222: 1			300200, 301200, 301220, 302350, 306000, 306000, 306100, 307030, 307800, 309470, 309510, 309585, 311770, 312040, 312170, 312612, 312700, 313400	245-262, 207-223
						AR052: 16, AR089: 15, AR053: 13, AR039: 12, AR033: 10, AR060: 9, AR061: 4, AR096: 1, AR104: 1, AR055: 0 L0777: 4, H0635: 3, L0775: 3, L0731: 3, L0758: 3, S0276: 3, H0170: 2, L0470: 2, H0013: 2, H0575: 2, H0046: 2, H0622: 2, H0634: 2, L0766: 2, L0783: 2, L0809: 2, L0664: 2					

503	HNTNC49	855013	513	40 - 1020	1918	Arg-80 to Gly-86, Gly-103 to Leu-110.	S0328: 2, S0152: 2, S3014: 2, L0439: 2, L0740: 2, L0747: 2, L0779: 2, L0599: 2, H0638: 1, H0411: 1, H0550: 1, H0069: 1, H0427: 1, L0021: 1, S0010: 1, L0105: 1, H0309: 1, H0572: 1, H0083: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, H0561: 1, S0464: 1, H0647: 1, S0210: 1, L0369: 1, L0769: 1, L0764: 1, L0648: 1, L0662: 1, L0768: 1, L0803: 1, L0806: 1, L0790: 1, H0520: 1, S0126: 1, S0122: 1, H0521: 1, H0522: 1, S0044: 1, S0406: 1, H0436: 1, S3012: 1, L0754: 1, L0745: 1, L0746: 1, L0750: 1, L0780: 1, L0759: 1, L0601: 1, S0192: 1 and S0424: 1.				236-252
						AR039: 26, AR053: 18, AR052: 18, AR089: 17, AR096: 16, AR104: 16, AR033: 16, AR060: 13, AR055: 9, AR061: 5 L0769: 10, L0659: 10, L0766: 7, L0748: 7, L0747: 7, L0750: 7, L0665: 6,					

L0743: 6, L0779: 6, L0754: 5, L0758: 5, L0761: 4, L0771: 4, L0662: 4, L0731: 4, H0620: 3, T0006: 3, H0617: 3, L0520: 3, L0774: 3, L0776: 3, L0809: 3, L0439: 3, L0777: 3, L0595: 3, H0657: 2, H0580: 2, H0156: 2, H0618: 2, H0253: 2, H0081: 2, L0471: 2, H0012: 2, S0366: 2, S0038: 2, H0130: 2, L0770: 2, L0768: 2, L0794: 2, L0806: 2, L0805: 2, L0657: 2, L0666: 2, L0663: 2, H0672: 2, H0539: 2, H0696: 2, L0740: 2, L0752: 2, L0759: 2, S0031: 2, L0599: 2, H0543: 2, H0295: 1, S0116: 1, H0341: 1, H0402: 1, H0305: 1, H0589: 1, H0638: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, H0208: 1, H0619: 1, H0441: 1, H0455: 1, H0587: 1, H0333: 1, L0623: 1, H0486: 1, L0021: 1, H0599: 1, H0108: 1, H0042: 1, S0010: 1, H0581: 1, H0546: 1, H0545: 1, H0046: 1, H0050: 1,
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504	HLTCO94	855239	514	238 - 612	1919	Ser-2 to Tyr-8.	H0057: 1, H0266: 1, H0188: 1, H0687: 1, H0039: 1, H0622: 1, H0424: 1, H0181: 1, H0383: 1, H0166: 1, H0673: 1, H0135: 1, H0090: 1, H0038: 1, H0087: 1, T0067: 1, H0623: 1, H0100: 1, S0112: 1, T0041: 1, H0494: 1, H0560: 1, L0763: 1, L0638: 1, L0373: 1, L0646: 1, L0800: 1, L0642: 1, L0643: 1, L0644: 1, L0764: 1, L0649: 1, L0386: 1, L0804: 1, L0650: 1, L0651: 1, L0540: 1, L0542: 1, L0783: 1, L0545: 1, L0367: 1, L0789: 1, L0792: 1, L0664: 1, L0438: 1, H0520: 1, H0547: 1, H0689: 1, H0670: 1, H0651: 1, S0380: 1, H0436: 1, L0744: 1, L0749: 1, L0756: 1, L0780: 1, L0755: 1, H0445: 1, H0595: 1, L0596: 1, L0591: 1 and L0608: 1. AR052: 18, AR053: 14, AR033: 7, AR096: 7, AR089: 6, AR060: 5, AR104: 5, AR055: 5, AR039: 3, AR061: 3				81-100, 13-29
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	H0694: 121, L0749: 14, L0439: 10, S0192: 9, H0656: 7, L0750: 7, L0731: 6, S0152: 5, L0740: 5, L0794: 4, L0747: 4, H0052: 3, S0003: 3, L0770: 3, L0769: 3, L0764: 3, L0803: 3, L0776: 3, L0438: 3, S0026: 3, H0341: 2, S0376: 2, S0408: 2, L0471: 2, H0014: 2, H0510: 2, L0598: 2, L0763: 2, L0765: 2, L0662: 2, L0388: 2, L0774: 2, L0805: 2, L0809: 2, L0789: 2, H0670: 2, L0602: 2, S0028: 2, L0751: 2, L0779: 2, L0752: 2, L0757: 2, H0542: 2, H0423: 2, H0422: 2, H0171: 1, H0686: 1, S0114: 1, T0049: 1, H0657: 1, H0661: 1, H0402: 1, S0444: 1, S0360: 1, S0222: 1, H0441: 1, H0442: 1, H0497: 1, H0574: 1, L0021: 1, H0575: 1, H0581: 1, T0115: 1, H0569: 1, S0051: 1, H0083: 1, H0375: 1, S0214: 1, H0328: 1, H0039: 1, H0644: 1, H0090: 1, H0616: 1, H0623: 1	
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505	HBIMT77	855274	515	336 - 743	1920	Lys-8 to Gly-15, Arg-29 to Ala-34, Asp-65 to Pro-70.	H0059: 1, H0100: 1, S0142: 1, S0002: 1, L0369: 1, L0637: 1, L0646: 1, L0771: 1, L0363: 1, L0766: 1, L0649: 1, L0381: 1, L0804: 1, L0654: 1, L0606: 1, L0659: 1, L0783: 1, L0544: 1, L0663: 1, S0374: 1, L0352: 1, H0520: 1, H0547: 1, H0683: 1, H0660: 1, S0328: 1, H0539: 1, H0522: 1, L0742: 1, L0748: 1, L0756: 1, L0777: 1, L0758: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0599: 1, L0601: 1, H0653: 1 and H0543: 1. AR053: 4, AR033: 2, AR089: 2, AR055: 1, AR096: 1, AR104: 1, AR061: 1, AR060: 1, AR039: 0, AR052: 0 L0758: 6, L0794: 4, L0764: 3, L0809: 3, S0360: 2, H0253: 2, H0196: 2, H0052: 2, H0150: 2, H0024: 2, H0424: 2, H0606: 2, L0770: 2, L0803: 2, H0547: 2, H0593: 2, L0747: 2, L0759: 2, L0485: 2, S6024:						42-62
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506	HTLIV70	855314	516	94 - 1047	1921	Asp-36 to Ser-42.	1, H0657: 1, H0341: 1, H0402: 1, S0046: 1, H0549: 1, H0608: 1, H0587: 1, H0618: 1, H0546: 1, H0123: 1, H0081: 1, H0099: 1, H0271: 1, H0328: 1, H0124: 1, H0040: 1, H0116: 1, L0475: 1, L0761: 1, L0646: 1, L0662: 1, L0363: 1, L0806: 1, L0635: 1, L0790: 1, S0330: 1, H0521: 1, L0611: 1, L0439: 1, L0751: 1 and L0749: 1.				73-90, 152-168, 51-67, 270-286, 207-223
507	HFADF33	855433	517	532 - 197	1922	Met-1 to His-23, Asp-64 to Ser-79.	AR039: 18, AR033: 17, AR089: 15, AR052: 14, AR055: 13, AR053: 13, AR061: 9, AR096: 9, AR060: 8, AR104: 6 H0618: 2, S0031: 2, H0545: 1, S0050: 1, H0031: 1, H0124: 1, H0130: 1, H0646: 1, H0521: 1, S0432: 1, L0601: 1 and L0600: 1.				91-109



508	HETJQ73	855453	518	538 - 1269	1923	Met-1 to Pro-7, Leu-55 to Tyr-60, Glu-67 to Leu-77, Arg-110 to Phe-115, Glu-218 to Lys-223.	L0742: 8, L0769: 6, L0351: 5, S0222: 4, H0052: 4, T0010: 4, S6024: 3, L0768: 3, L0779: 3, L0759: 3, H0455: 2, L0794: 2, L0776: 2, L0438: 2, S0001: 1, L0534: 1, S0049: 1, S0051: 1, S0038: 1, L0763: 1, L0770: 1, L0805: 1, L0745: 1, L0777: 1, L0753: 1 and L0758: 1. AR061: 56, AR055: 8, AR089: 6, AR060: 6, AR096: 6, AR052: 5, AR053: 4, AR033: 4, AR104: 3, AR039: 2 H0046: 9, L0766: 8, L0731: 6, L0779: 5, L0800: 4, S0003: 3, S0408: 2, H0494: 2, S0422: 2, L0803: 2, L0804: 2, L0805: 2, L0776: 2, L0655: 2, L0748: 2, L0754: 2, S0412: 2, H0306: 1, S0418: 1, S0444: 1, S0222: 1, H0611: 1, L0163: 1, H0266: 1, S0214: 1, L0483: 1, L0055: 1, L0455: 1, H0038: 1, H0063: 1, H0413: 1, S0440: 1, L0770: 1, L0771: 1, L0521:					163-202, 134-159, 223-241, 113-131, 199-215, 156-172
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509	HAGGV44	855714	519	298 - 606	1924		1, L0806: 1, L0653: 1, L0659: 1, L0790: 1, L0666: 1, L0663: 1, S0126: 1, H0690: 1, H0684: 1, H0658: 1, H0710: 1, H0521: 1, H0478: 1, S0206: 1, L0740: 1, L0751: 1, L0750: 1, L0777: 1, L0758: 1, L0605: 1, L0595: 1, S0192: 1, H0543: 1, H0423: 1 and S0424: 1. AR055: 10, AR033: 6, AR060: 5, AR089: 5, AR061: 4, AR052: 4, AR053: 4, AR096: 3, AR039: 3, AR104: 3 L0777: 14, L0769: 3, L0803: 3, L0805: 3, L0742: 3, L0439: 3, S0346: 2, L0766: 2, H0658: 2, L0749: 2, L0752: 2, L0407: 1, L0415: 1, S0116: 1, H0306: 1, H0305: 1, H0351: 1, H0441: 1, H0392: 1, H0486: 1, L0586: 1, H0427: 1, S0010: 1, T0048: 1, H0251: 1, L0471: 1, H0687: 1, H0428: 1, H0124: 1, H0413: 1, H0517: 1, L0369: 1, L0638: 1, L0775: 1, L0651:					37-55, 60- 76, 79-95
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510	HTTDM15	856108	520	38 - 778	1925				1, L0776: 1, L0518: 1, L0789: 1, L0792: 1, L0438: 1, L0352: 1, S0380: 1, S0188: 1, S0146: 1, H0576: 1, L0740: 1, L0747: 1, L0756: 1, L0779: 1, L0755: 1, L0759: 1, S0260: 1, L0601: 1, S0192: 1 and H0423: 1.				133-149, 17-33, 109-125
511	HADCY76	856212	521	208 - 567	1926	Glu-40 to Phe-45.			AR052: 12, AR055: 11, AR053: 10, AR089: 9, AR096: 9, AR033: 8, AR060: 8, AR061: 7, AR104: 5, AR039: 5 L0748: 4, H0441: 2, H0333: 2, H0670: 2, H0660: 2, L0439: 2, L0747: 2, L0601: 2, S0218: 1, H0650: 1, H0656: 1, H0254: 1, H0255: 1, H0013: 1, H0327: 1, H0266: 1, H0070: 1, H0040: 1, T0042: 1, L0809: 1, L0790: 1, L0792: 1, H0689: 1, H0435: 1, H0134: 1, L0741: 1, L0759: 1 and S0042: 1.				48-65

									AR061: 0, AR033: 0, AR052: 0 L0749: 3, H0346: 1, H0370: 1, H0427: 1 and L0439: 1.					
512	HDPXW75	856251	522	21 - 548	1927	Ser-4 to Ser-11.			AR039: 3, AR096: 2, AR104: 2, AR089: 2, AR052: 1, AR061: 1, AR053: 0, AR033: 0, AR060: 0, AR055: 0 S0278: 1, H0521: 1 and L0740: 1.				52-69, 160-176	
513	HMCDC50	856301	523	103 - 525	1928	Gly-5 to Asp-11.			AR060: 167, AR055: 164, AR061: 136, AR033: 116, AR039: 97, AR104: 97, AR053: 89, AR089: 83, AR052: 73, AR096: 70 S0142: 4, H0581: 1, S0250: 1 and H0521: 1.				122-138	
514	HMADZ55	856326	524	33 - 743	1929	His-11 to Tyr-17.			AR033: 3, AR061: 3, AR053: 3, AR060: 2, AR089: 2, AR104: 2, AR096: 2, AR055: 1, AR039: 0, AR052: 0 S0144: 5, S0278: 3, S0142: 2, S0426: 2, L0665: 2, L0748: 2, H0556: 1, H0583: 1, H0644: 1, H0617: 1, H0606: 1, H0090: 1, S0002:				127-158, 157-185, 106-125, 49-65, 205-221	

515	HTXNB76	856497	525	617 - 315	1930	Met-1 to Asn-13.	1, L0770: 1, L0767: 1, L0375: 1, L0659: 1, L0791: 1, H0689: 1, H0518: 1 and L0758: 1. AR096: 2, AR039: 2, AR089: 1, AR053: 1, AR033: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 0, AR052: 0 L0766: 6, L0748: 5, H0556: 3, H0090: 2, L0655: 2, H0580: 1, H0581: 1, L0040: 1, L0055: 1, H0591: 1, H0396: 1, H0641: 1, L0761: 1, L0772: 1, L0794: 1, L0387: 1, L0606: 1, L0666: 1, L0664: 1, H0659: 1, S0378: 1, L0779: 1, H0445: 1 and H0542: 1.				83-101
516	HLWDD49	856506	526	127 - 465	1931	Tyr-9 to Gly-24, Gly-27 to Gln-34.	AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR061: 0, AR052: 0, AR039: 0, AR104: 0, AR053: 0, AR055: 0 H0254: 1, H0553: 1, H0429: 1, H0538: 1 and H0520: 1.				87-105
517	HLQGX48	856704	527	921 - 1436	1932	Gly-59 to Pro-68, Gln-87 to Lys-96,	AR039: 30, AR055: 28, AR033: 25, AR053: 19,				21-51, 146-164,

518	H2CBH17	856745	528	335 - 2263	1933	Leu-27 to Ser-35, Pro-64 to Gly-70, Glu-86 to Thr-92, Ser-100 to Glu-105, Arg-135 to Arg-140, Thr-366 to Cys-378, Asp-395 to His-400, Glu-436 to Arg-442, Glu-478 to Asn-486, Ser-530 to Asp-538, Glu-614 to Gly-625, Ile-637 to Leu-643.	Gly-120 to Cys-125.	AR060: 19, AR089: 16, AR052: 15, AR104: 14, AR061: 12, AR096: 12 L0766: 15, L0805: 5, H0632: 2, L0789: 2, L0740: 2, H0395: 1, H0656: 1, H0341: 1, H0574: 1, H0647: 1, S0422: 1, L0761: 1, L0794: 1, L0776: 1, L0515: 1, S0216: 1, H0144: 1, H0682: 1, H0660: 1 and L0755: 1.			127-143, 69-85
						AR096: 7, AR033: 7, AR052: 7, AR060: 6, AR053: 5, AR089: 5, AR055: 4, AR104: 4, AR039: 3, AR061: 2 L0438: 9, L0439: 4, H0170: 3, H0615: 3, S0378: 3, L0750: 3, H0553: 2, H0090: 2, H0529: 2, L0764: 2, L0803: 2, L0804: 2, L0775: 2, L0652: 2, L0659: 2, L0809: 2, H0144: 2, S0028: 2, L0748: 2, L0745: 2, L0779: 2, L0777: 2, L0759: 2, L0591: 2, H0624: 1, S0356: 1, S0376: 1, S0360: 1, L0717: 1, S0278: 1, H0369: 1, H0431: 1,				321-338, 581-598, 459-475, 285-301, 213-229, 177-193	

519	HLQEF25	856748	529	70 - 432	1934	Pro-17 to Gly-31.	H0586: 1, H0574: 1, H0013: 1, H0427: 1, H0122: 1, H0052: 1, T0110: 1, L0118: 1, H0050: 1, H0024: 1, H0051: 1, H0594: 1, S0003: 1, H0031: 1, H0644: 1, H0591: 1, H0038: 1, H0551: 1, H0264: 1, L0435: 1, T0042: 1, H0131: 1, S0142: 1, S0210: 1, L0637: 1, L0772: 1, L0800: 1, L0773: 1, L0794: 1, L0766: 1, L0375: 1, L0657: 1, L0665: 1, H0547: 1, S0126: 1, H0684: 1, H0660: 1, H0672: 1, H0518: 1, S0136: 1, H0436: 1, L0747: 1, L0756: 1, L0752: 1, H0445: 1, L0595: 1, H0667: 1, H0543: 1, L0697: 1 and S0424: 1. AR055: 6, AR061: 6, AR060: 3, AR053: 3, AR096: 3, AR033: 3, AR089: 2, AR052: 2, AR039: 2, AR104: 1 L0604: 8, L0485: 6, L0748: 5, L0777: 3, S0438: 2, L0809: 2, H0722: 1, H0574: 1, H0041: 1, H0708: 1, S0366: 1, L0747: 1					99-121
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520	HTOHA37	856923	530	12 - 881	1935			L0749: 1, L0780: 1 and L0759: 1. AR096: 3, AR089: 3, AR055: 3, AR060: 2, AR033: 2, AR053: 2, AR052: 1, AR061: 1, AR104: 1, AR039: 0 H0585: 8, H0265: 3, H0141: 2, S0360: 2, H0251: 2, H0031: 2, H0551: 2, H0529: 2, L0519: 2, L0545: 2, L0664: 2, H0668: 2, S0040: 1, T0049: 1, H0656: 1, H0255: 1, S0376: 1, S0132: 1, H0546: 1, H0375: 1, S0314: 1, H0428: 1, H0039: 1, H0553: 1, L0055: 1, H0264: 1, H0561: 1, H0509: 1, L0643: 1, L0803: 1, L0651: 1, L0378: 1, L0776: 1, L0659: 1, L0790: 1, L0666: 1, H0519: 1, S0126: 1, H0521: 1, H0576: 1, L0777: 1, L0755: 1, L0731: 1, L0757: 1, L0759: 1, H0665: 1, S0194: 1 and S0458: 1.		41-57, 101-117
521	HLHAW26	856982	531	299 - 613	1936			AR055: 12, AR061: 7, AR052: 7, AR060: 7,		34-51



									AR089: 6, AR033: 5, AR096: 5, AR053: 5, AR039: 3, AR104: 3 H0144: 3, H0208: 1, H0369: 1 and H0024: 1.				
522	HKAAZ46	857100	532	281 - 679	1937	Asn-26 to Asn-31, Ser-67 to Ala-74, Ile-105 to Lys-110.			AR039: 23, AR053: 14, AR096: 11, AR033: 11, AR104: 10, AR052: 9, AR089: 9, AR055: 7, AR060: 7, AR061: 4 H0494: 1				79-104, 109-127, 47-63
523	HAQAF12	857311	533	45 - 653	1938	Ala-5 to Lys-36, Ser-41 to Leu-80, Gly-98 to Gly-112, Gly-198 to Asp-203.			AR039: 32, AR053: 22, AR033: 19, AR052: 18, AR089: 17, AR055: 17, AR104: 13, AR096: 13, AR060: 12, AR061: 10 H0295: 1 and S0330: 1.				127-150, 160-176
524	HTXEX35	857404	534	263 - 793	1939	Gln-56 to Pro-65, Pro-70 to Asn-76, Gly-85 to Trp-94, Arg-103 to Ser-108.			AR055: 7, AR052: 6, AR053: 5, AR033: 4, AR061: 4, AR096: 4, AR060: 4, AR089: 4, AR039: 3, AR104: 1 L0439: 4, L0748: 3, L0731: 3, H0265: 2, H0015: 2, H0083: 2, H0040: 2, L0764: 2, L0766: 2, L0543: 2, S0027: 2, L0758: 2, L0759: 2, L0604: 2, H0685: 1, H0656: 1, S0360: 1,				134-152

525	HE8TE64	857478	535	151 - 831	1940	Gln-14 to Ala-21, Leu-45 to Arg-51, Arg-54 to Asp-61, Ser-88 to Ile-95, Leu-111 to Gln-117.	S0045: 1, L0717: 1, S0222: 1, H0156: 1, H0575: 1, H0046: 1, H0014: 1, H0266: 1, H0687: 1, H0166: 1, H0674: 1, H0529: 1, L0769: 1, L0645: 1, L0363: 1, L0768: 1, L0806: 1, L0557: 1, L0776: 1, L0789: 1, L0665: 1, L0438: 1, H0682: 1, H0648: 1, L0779: 1, L0752: 1, H0444: 1, L0608: 1, H0668: 1 and H0423: 1. AR061: 4, AR033: 3, AR055: 3, AR053: 3, AR060: 2, AR104: 2, AR089: 2, AR039: 1, AR052: 1, AR096: 1 H0013: 1 and S0250: 1. AR055: 13, AR033: 11, AR053: 10, AR052: 9, AR089: 8, AR060: 8, AR061: 6, AR096: 4, AR104: 4, AR039: 3 S0418: 2, H0046: 2, H0542: 2, H0341: 1, H0421: 1, H0052: 1, L0471: 1, S0022: 1, H0038: 1, H0433: 1, H0560: 1, H0132: 1, S0374: 1, S3014: 1, L0759:					130-162, 171-187
526	HL3AC38	857623	536	87 - 872	1941							70-87, 119-135

527	HMUAO31	857664	537	11 - 955	1942	Gln-68 to Gln-74.	1 and S0276: 1. AR039: 11, AR033: 9, AR053: 8, AR089: 7, AR052: 7, AR055: 7, AR096: 6, AR060: 5, AR061: 5, AR104: 5 H0494: 12, L0770: 12, H0657: 11, H0659: 9, L0774: 8, L0776: 8, H0648: 8, L0755: 8, S0410: 6, L0769: 6, L0766: 6, L0750: 6, H0638: 5, S0408: 5, H0559: 5, S0440: 5, L0775: 5, H0520: 5, H0556: 4, H0341: 4, S0418: 4, S0358: 4, S0376: 4, S0360: 4, H0617: 4, L0665: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, S0434: 4, S0420: 3, H0253: 3, H0424: 3, H0616: 3, H0560: 3, L0374: 3, H0144: 3, L0439: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, L0596: 3, L0601: 3, S0026: 3, S0194: 3, H0170: 2, H0265: 2, H0685: 2, H0656: 2, L0415: 2, S0444: 2, S0278: 2, H0550: 2, H0257: 2, T0109: 2, H0156: 2, H0618: 2,				204-225, 142-158, 82-98, 6- 22
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528	HHAWD3 3	857697	538	407 - 1132	1943	Met-1 to Ser-9, Ser-11 to Val-21, Gln-64 to Pro-69,	H0014: 1, H0510: 1, H0375: 1, H0188: 1, S0022: 1, H0428: 1, H0708: 1, S0366: 1, H0135: 1, H0634: 1, H0063: 1, H0087: 1, H0413: 1, H0623: 1, H0059: 1, S0386: 1, H0100: 1, T0042: 1, L0475: 1, H0386: 1, H0646: 1, L0598: 1, H0529: 1, L0369: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0773: 1, L0521: 1, L0363: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0647: 1, L0789: 1, L0791: 1, H0691: 1, H0519: 1, H0689: 1, H0690: 1, H0660: 1, H0672: 1, H0651: 1, S0330: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, L0749: 1, L0780: 1, L0757: 1, L0608: 1, L0594: 1, H0668: 1, H0653: 1, H0667: 1, S0242: 1, S0276: 1 and H0422: 1, AR033: 4, AR052: 3, AR039: 3, AR053: 3, AR104: 3, AR089: 3,				110-135, 69-85, 47- 63
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							Thr-88 to Arg-96, Asp-106 to Gly-116.	AR096: 3, AR060: 2, AR055: 2, AR061: 2 L0757: 3, S0410: 2, H0052: 2, L0794: 2, L0766: 2, L0806: 2, L0809: 2, L0750: 2, L0593: 2, S0418: 1, L0534: 1, S0442: 1, S0408: 1, H0619: 1, H0036: 1, H0318: 1, H0009: 1, H0050: 1, H0051: 1, H0267: 1, L0455: 1, H0316: 1, H0135: 1, H0616: 1, H0412: 1, H0494: 1, S0150: 1, L0763: 1, L0768: 1, L0803: 1, L0804: 1, L0776: 1, L0542: 1, L0789: 1, H0547: 1, S0152: 1, L0740: 1, L0754: 1, L0599: 1, L0594: 1, S0196: 1, H0423: 1 and H0506: 1.			
529	HTZMB08	857723	539	90 - 404	1944		Tyr-29 to Thr-34, Pro-87 to Lys-97.	AR060: 2, AR089: 2, AR053: 1, AR061: 1, AR033: 1, AR096: 0, AR104: 0, AR055: 0, AR039: 0 S0001: 1, H0333: 1 and S3020: 1.			43-59
530	HJBCE86	857743	540	80 - 1324	1945			AR055: 11, AR052: 10, AR096: 8, AR060: 8,			128-144, 346-362,

531	HFPCK56	857809	541	429 - 869	1946	Pro-2 to His-10, Pro-13 to Gly-19, Ser-23 to Arg-29.	AR104: 8, AR039: 7, AR053: 7, AR089: 7, AR033: 7, AR061: 5 L0748: 4, H0333: 2, L0766: 2, H0556: 1, S0114: 1, S0116: 1, S0360: 1, H0438: 1, H0156: 1, H0599: 1, H0706: 1, H0590: 1, H0135: 1, H0264: 1, T0042: 1, L0783: 1, L0809: 1, L0544: 1, L0666: 1, L0663: 1, S0052: 1, L0439: 1, L0749: 1, S0434: 1, L0595: 1 and S0424: 1.	AR104: 8, AR039: 7, AR053: 7, AR089: 7, AR033: 7, AR061: 5 L0748: 4, H0333: 2, L0766: 2, H0556: 1, S0114: 1, S0116: 1, S0360: 1, H0438: 1, H0156: 1, H0599: 1, H0706: 1, H0590: 1, H0135: 1, H0264: 1, T0042: 1, L0783: 1, L0809: 1, L0544: 1, L0666: 1, L0663: 1, S0052: 1, L0439: 1, L0749: 1, S0434: 1, L0595: 1 and S0424: 1.				307-323
							AR096: 13, AR052: 11, AR053: 10, AR033: 10, AR089: 9, AR055: 9, AR104: 8, AR060: 8, AR061: 5, AR039: 5 L0809: 7, H0658: 6, L0748: 6, S0222: 5, L0794: 5, L0776: 5, L0756: 5, L0752: 5, L0731: 5, L0770: 4, L0662: 4, L0743: 4, L0439: 4, L0751: 4, L0754: 4, L0747: 4, L0759: 4, H0013: 3, L0769: 3, L0805: 3, L0789: 3, L0664: 3, L0740: 3, L0777: 3, L0753: 3, L0758: 3, H0333: 2.				27-51, 126-147	

532	HAPSP72	857844	542	224 -	1947	Lys-99 to Tyr-110,	H0052: 2, H0545: 2, H0428: 2, L0483: 2, L0455: 2, H0509: 2, L0763: 2, L0771: 2, L0803: 2, L0804: 2, L0806: 2, L0527: 2, L0783: 2, L0666: 2, L0663: 2, S0152: 2, S0146: 2, L0744: 2, L0745: 2, L0603: 2, H0686: 1, S0116: 1, H0255: 1, S0418: 1, S0408: 1, H0645: 1, H0393: 1, L0717: 1, H0351: 1, H0370: 1, H0574: 1, H0156: 1, H0599: 1, H0590: 1, H0253: 1, H0390: 1, S0049: 1, H0009: 1, H0178: 1, H0071: 1, T0010: 1, H0252: 1, H0615: 1, T0006: 1, H0033: 1, H0424: 1, H0032: 1, H0124: 1, S0142: 1, L0638: 1, L0761: 1, L0641: 1, L0768: 1, L0774: 1, L0775: 1, L0657: 1, L0636: 1, L0517: 1, L0518: 1, L0665: 1, H0144: 1, H0659: 1, H0670: 1, H0660: 1, H0696: 1, H0626: 1, S0432: 1, S0027: 1, L0742: 1, L0750: 1, L0757: 1 and S0011: 1.	AR033: 7, AR055: 6,				111-129
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533	HACBM44	857913	543	107 - 490	1948	Pro-23 to Glu-29, Tyr-39 to Ser-46, Pro-69 to Asp-89, Asp-112 to Pro-117.	AR052: 6, AR060: 5, AR096: 5, AR053: 5, AR089: 4, AR104: 3, AR061: 3, AR039: 2 L0777: 5, L0766: 3, L0740: 3, L0665: 2, H0521: 2, L0748: 2, L0779: 2, L0752: 2, H0624: 1, S0420: 1, S0442: 1, L0428: 1, H0619: 1, H0431: 1, H0575: 1, H0318: 1, L0719: 1, S0214: 1, H0598: 1, H0591: 1, H0616: 1, S0422: 1, L0770: 1, L0659: 1, H0520: 1, S3014: 1, L0742: 1, L0743: 1, L0744: 1, L0751: 1, L0747: 1, L0756: 1, L0759: 1 and S0242: 1.				
						Pro-145 to Leu-152, Pro-177 to Thr-182.	AR033: 13, AR096: 9, AR052: 9, AR060: 8, AR089: 8, AR053: 8, AR055: 8, AR061: 5, AR039: 4, AR104: 4 L0770: 10, L0754: 8, L0731: 8, S0358: 6, S0414: 6, H0255: 5, S0022: 4, H0627: 4, L0757: 4, H0657: 3, H0090: 3, H0539: 3, L0755: 3, L0759: 3, S0026: 3, H0556: 2, S0007: 2,				47-66



534	HLTEO24	857964	544	24 - 347	1949	Leu-10 to Tyr-20, Leu-24 to Ser-30.	AR055: 8, AR060: 4, AR052: 4, AR061: 4, AR033: 3, AR053: 3, AR089: 3, AR096: 2, AR104: 2, AR039: 1 H0616: 3, H0619: 1, H0457: 1, H0090: 1, H0038: 1, S0422: 1, L0804: 1 and L0754: 1.	S0037: 1, S0028: 1, L0748: 1, L0756: 1, L0777: 1, H0343: 1, L0605: 1, L0485: 1, L0599: 1, L0593: 1, L0366: 1, S0011: 1, H0665: 1 and H0543: 1.				26-58, 49- 65
535	HHFJP51	857977	545	72 - 422	1950	Cys-26 to Ser-32, Pro-66 to Arg-77.	AR055: 7, AR060: 6, AR052: 5, AR089: 5, AR033: 5, AR104: 4, AR039: 4, AR053: 4, AR096: 3, AR061: 3 H0124: 13, L0809: 7, L0601: 4, S0358: 2, L0666: 2, H0670: 2, L0439: 2, H0556: 1, S0420: 1, S0442: 1, H0619: 1, H0614: 1, H0587: 1, H0581: 1, H0457: 1, H0078: 1, H0271: 1, H0031: 1, H0617: 1, H0135: 1, L0762: 1, L0769: 1.	AR055: 7, AR060: 6, AR052: 5, AR089: 5, AR033: 5, AR104: 4, AR039: 4, AR053: 4, AR096: 3, AR061: 3 H0124: 13, L0809: 7, L0601: 4, S0358: 2, L0666: 2, H0670: 2, L0439: 2, H0556: 1, S0420: 1, S0442: 1, H0619: 1, H0614: 1, H0587: 1, H0581: 1, H0457: 1, H0078: 1, H0271: 1, H0031: 1, H0617: 1, H0135: 1, L0762: 1, L0769: 1.				77-95, 100-116

536	HHFLL87	858001	546	162 - 842	1951	Arg-17 to Trp-23, Asp-37 to Asp-45, Gln-66 to Gly-75, Ser-137 to Ala-144.	L0373: 1, L0800: 1, L0662: 1, L0363: 1, L0794: 1, L0803: 1, L0774: 1, L0775: 1, L0375: 1, L0655: 1, L0664: 1, L0665: 1, S0374: 1, H0547: 1, H0682: 1, H0658: 1, S0152: 1, L0747: 1, L0779: 1, L0596: 1 and L0592: 1. AR033: 19, AR039: 14, AR089: 10, AR055: 9, AR053: 9, AR052: 8, AR096: 6, AR060: 6, AR061: 6, AR104: 4 L0745: 13, L0769: 7, S0036: 6, L0753: 5, S0031: 5, H0052: 4, H0327: 4, H0046: 4, H0051: 4, T0006: 4, L0742: 4, L0746: 4, L0756: 4, L0752: 4, S6024: 3, S0282: 3, H0619: 3, S0388: 3, S0051: 3, L0741: 3, L0749: 3, S0222: 2, S0049: 2, S6028: 2, L0806: 2, L0776: 2, L0438: 2, L0777: 2, S0035: 1, H0662: 1, H0438: 1, L0021: 1, H0575: 1, S0182: 1, H0310: 1, H0009: 1, H0050: 1, T0010: 1, H0399: 1, H0615:					172-190, 197-213
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537	HCUDR30	858010	547	33 - 542	1952	Leu-69 to Asp-76.	1, H0604: 1, L0456: 1, L0763: 1, L0770: 1, L0630: 1, L0381: 1, L0774: 1, L0775: 1, L0805: 1, L0659: 1, L0788: 1, H0689: 1, H0684: 1, H0670: 1, H0134: 1, H0478: 1, L0612: 1, L0743: 1, L0747: 1, L0779: 1, L0758: 1, S0260: 1 and L0366: 1.					89-105, 1- 17
538	HHFHI24	858020	548	75 - 431	1953	Pro-30 to His-50.	AR096: 2, AR033: 2, AR055: 2, AR053: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR039: 0, AR052: 0 H0553: 2, T0049: 1, H0656: 1, H0402: 1, H0125: 1, S0045: 1, H0619: 1, H0586: 1, T0114: 1, H0581: 1, H0628: 1, H0551: 1, S0310: 1, H0520: 1, H0539: 1, H0521: 1, L0779: 1, S0434: 1 and L0485: 1. AR039: 2, AR055: 1, AR061: 1, AR104: 1, AR060: 0, AR089: 0, AR033: 0, AR096: 0, AR052: 0, AR053: 0 L0749: 3, H0341: 1 and					81-97

539	HSIAI48	858030	549	163 - 573	1954				H0050: 1. AR104: 513, AR061: 376, AR055: 327, AR060: 253, AR033: 188, AR089: 172, AR039: 115, AR053: 110, AR052: 101, AR096: 87 H0036: 1, H0050: 1 and H0673: 1.				94-113, 17-33
540	HHFBP47	858073	550	517 - 945	1955				AR055: 7, AR089: 6, AR033: 5, AR096: 5, AR104: 4, AR060: 4, AR061: 4, AR039: 3, AR052: 3, AR053: 3 L0748: 2, L0749: 2, H0085: 1, H0050: 1, H0090: 1 and L0758: 1.				7-31, 56- 73, 39-55
541	HKADE35	858104	551	66 - 593	1956	Thr-30 to Ala-35, Ala-72 to Trp-83, Thr-138 to Ala-151.			AR039: 8, AR089: 2, AR052: 2, AR061: 1, AR060: 1, AR096: 0, AR033: 0, AR104: 0 L0758: 9, L0748: 6, L0747: 6, L0779: 5, L0750: 4, H0556: 3, L0804: 3, H0658: 3, H0656: 2, L0770: 2, L0769: 2, L0774: 2, H0144: 2, H0648: 2, L0439: 2, L0749: 2, L0596: 2, H0265: 1, S0444: 1, H0318: 1, H0597: 1, H0050: 1,				95-130, 120-136

542	HCFAW88	858107	552	103 - 495	1957	Ser-122 to Ttp-131.	H0024: 1, H0135: 1, H0090: 1, H0038: 1, H0616: 1, H0494: 1, L0065: 1, S0422: 1, H0529: 1, L0637: 1, L0764: 1, L0768: 1, L0794: 1, L0387: 1, L0803: 1, L0788: 1, L0790: 1, L0664: 1, L0438: 1, H0555: 1, L0780: 1, L0731: 1, H0444: 1, H0542: 1, H0543: 1 and H0423: 1. AR033: 3, AR089: 2, AR053: 2, AR055: 2, AR060: 2, AR104: 1, AR061: 1, AR096: 1, AR039: 1, AR052: 0 L0731: 9, L0803: 8, H0436: 6, L0740: 6, L0756: 6, L0805: 5, L0754: 5, L0783: 4, L0747: 4, L0749: 4, L0777: 4, H0556: 3, H0013: 3, L0771: 3, L0794: 3, L0774: 3, L0775: 3, L0809: 3, L0665: 3, L0757: 3, L0759: 3, L0599: 3, H0422: 3, H0341: 2, L0005: 2, S0046: 2, H0586: 2, H0427: 2, S0280: 2, H0201: 2, H0553: 2, H0040: 2, H0551: 2, T0042: 2, L0770:					67-88, 3- 30, 34-52, 96-123
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